

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

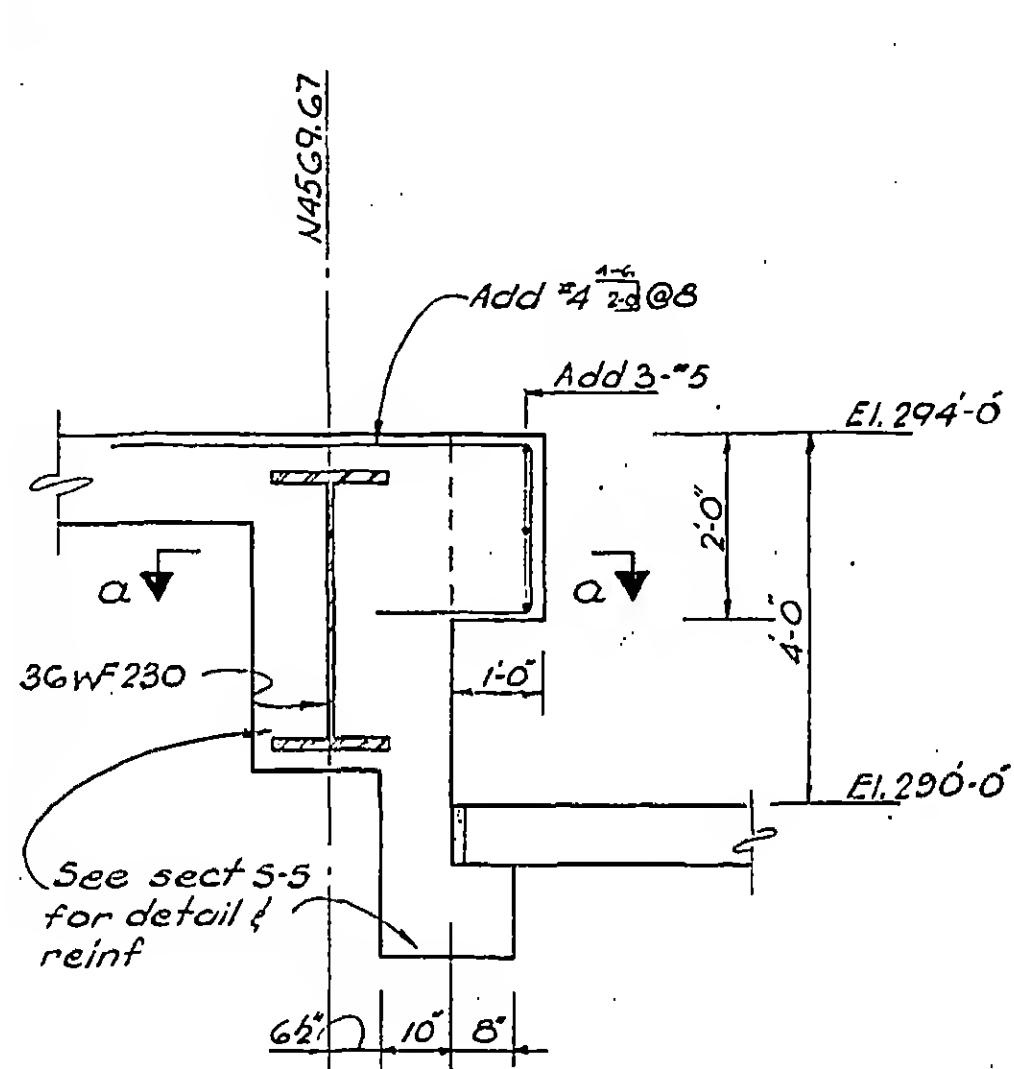
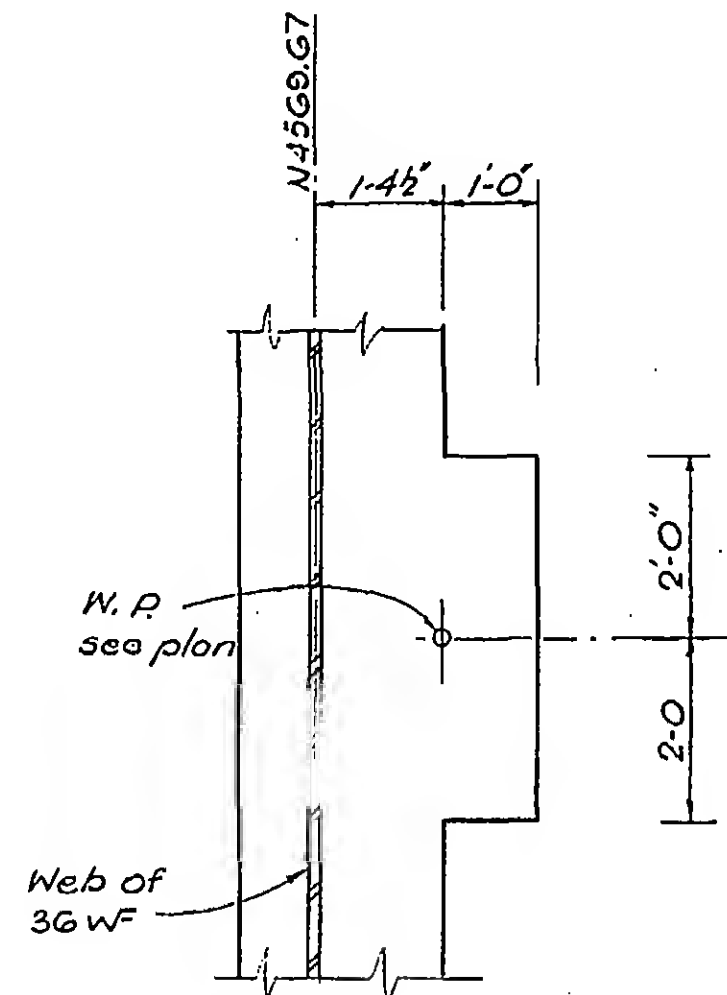
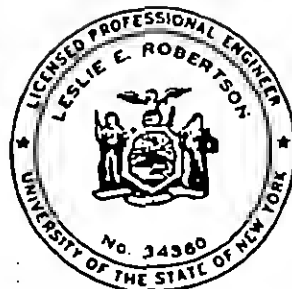
PROJECT THE WORLD TRADE CENTER

TITLE

SECTIONS AT EL. 290'-0"

DATE 1-16-70

REVISIONS

SECTION W-W
(b' = 1'-0")SECTION a-a
(b' = 1'-0")

DESIGNED

DRAWN

D.C. Huggins

REVIEWED

E.L.

8-JK-50.14

JKB

WTC-1000-L, 3

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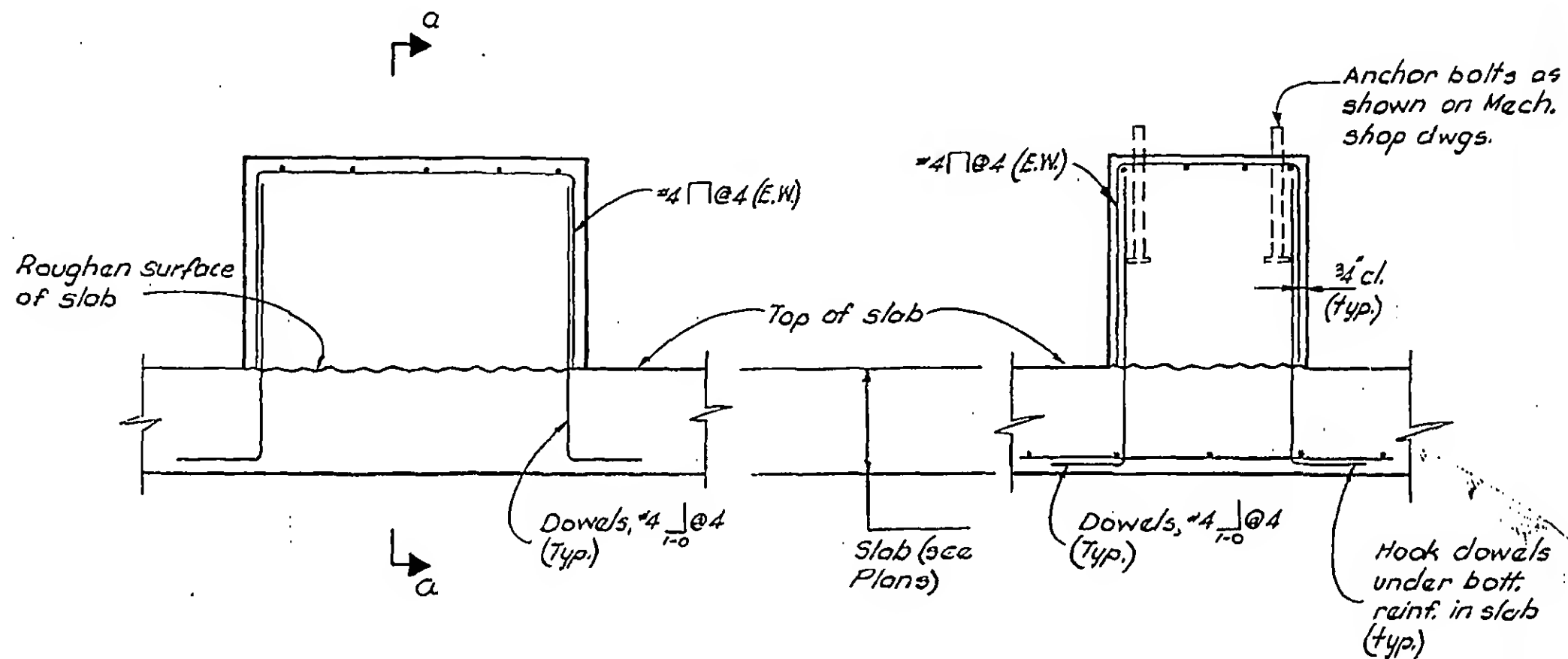
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PROJECT THE WORLD TRADE CENTER

TITLE DETAIL OF CONCRETE SUPPORT FOR 24" ϕ STEAM MAIN

DATE 1-27-70

REVISIONS

SECTION X-X
NO SCALESECTION A-A
NO SCALE

Notes

1. All conc. to be $f'_c = 3000$ psi.
2. See Mech. shop Dwgs. (Sand-Courter Dwg. P-14) for dimensions of conc. supports



DESIGNED

DRAWN

D. Huggins

REVIEWED

E.L.

8-JK8-50.15

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PROJECT

THE WORLD TRADE CENTER

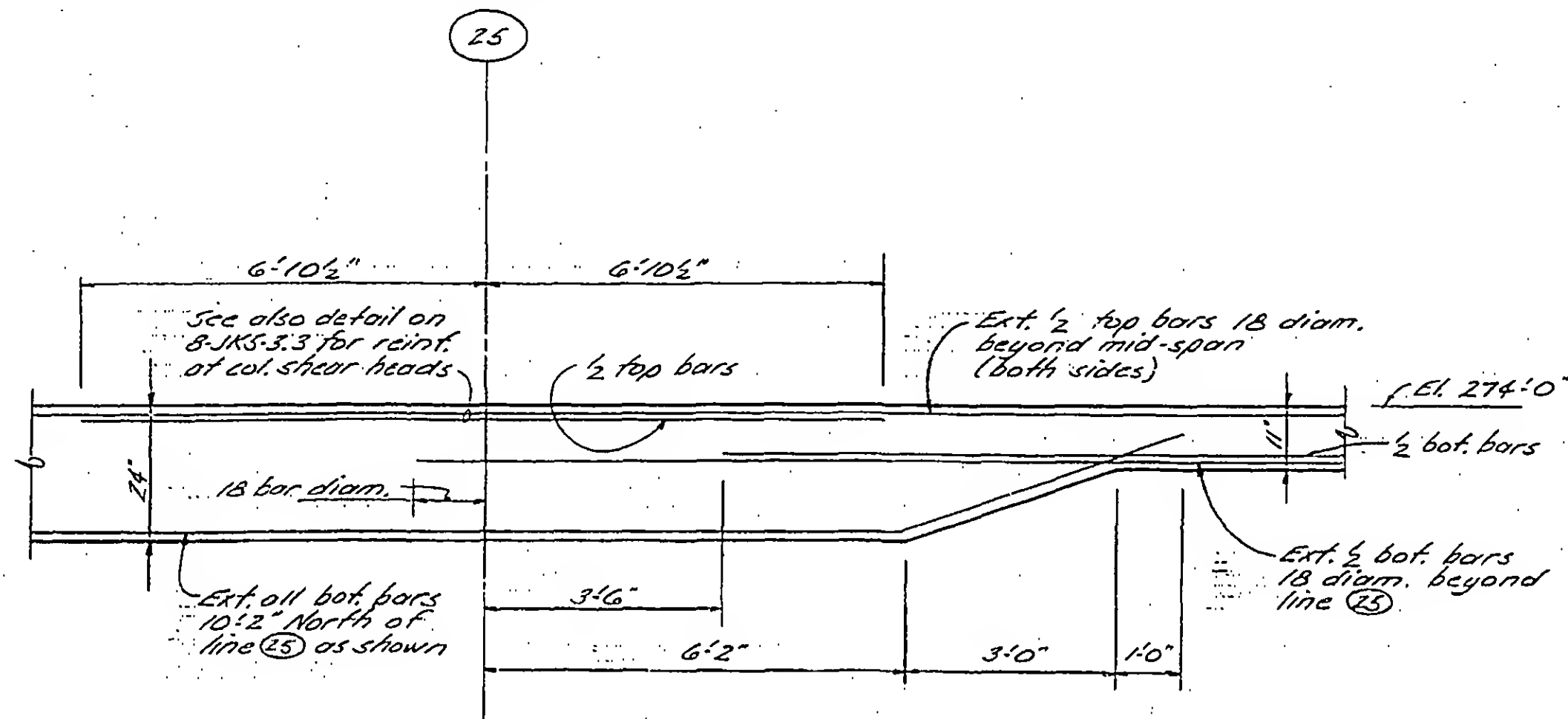
TITLE

SECTION AT EL. 274'-0"

DATE

1-31-69

REVISIONS



(This section applies to both
column and middle strips)

Section A-A

DESIGNED

DRAWN

J. Adams

REVIEWED

E.L.

8-JKS-51.1

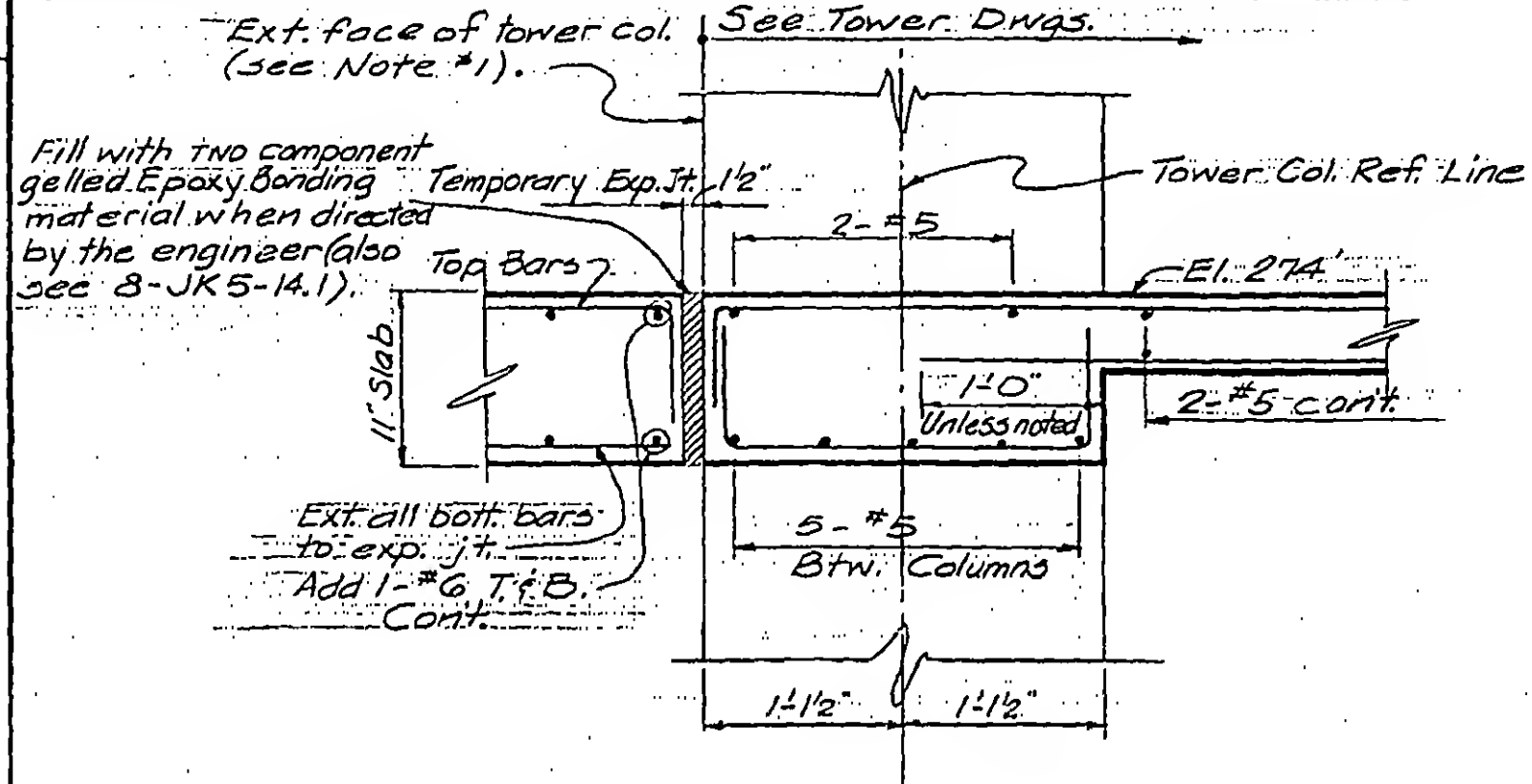
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

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PROJECT THE WORLD TRADE CENTER TITLE SECTION AT ELEV. 274

DATE 4-2-69

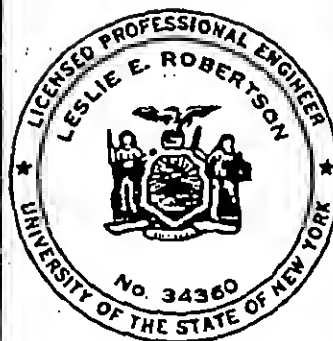
REVISIONS



Section B-B
(SCJ-55)

NOTES:

- 1) Where Tower Diagonal-Plates occur, 1/2" joint shall be provided on all three sides of such plates.
- 2) See also 8-JK5-14.1.



DESIGNED

DRAWN

G.S.

REVIEWED

E.L.

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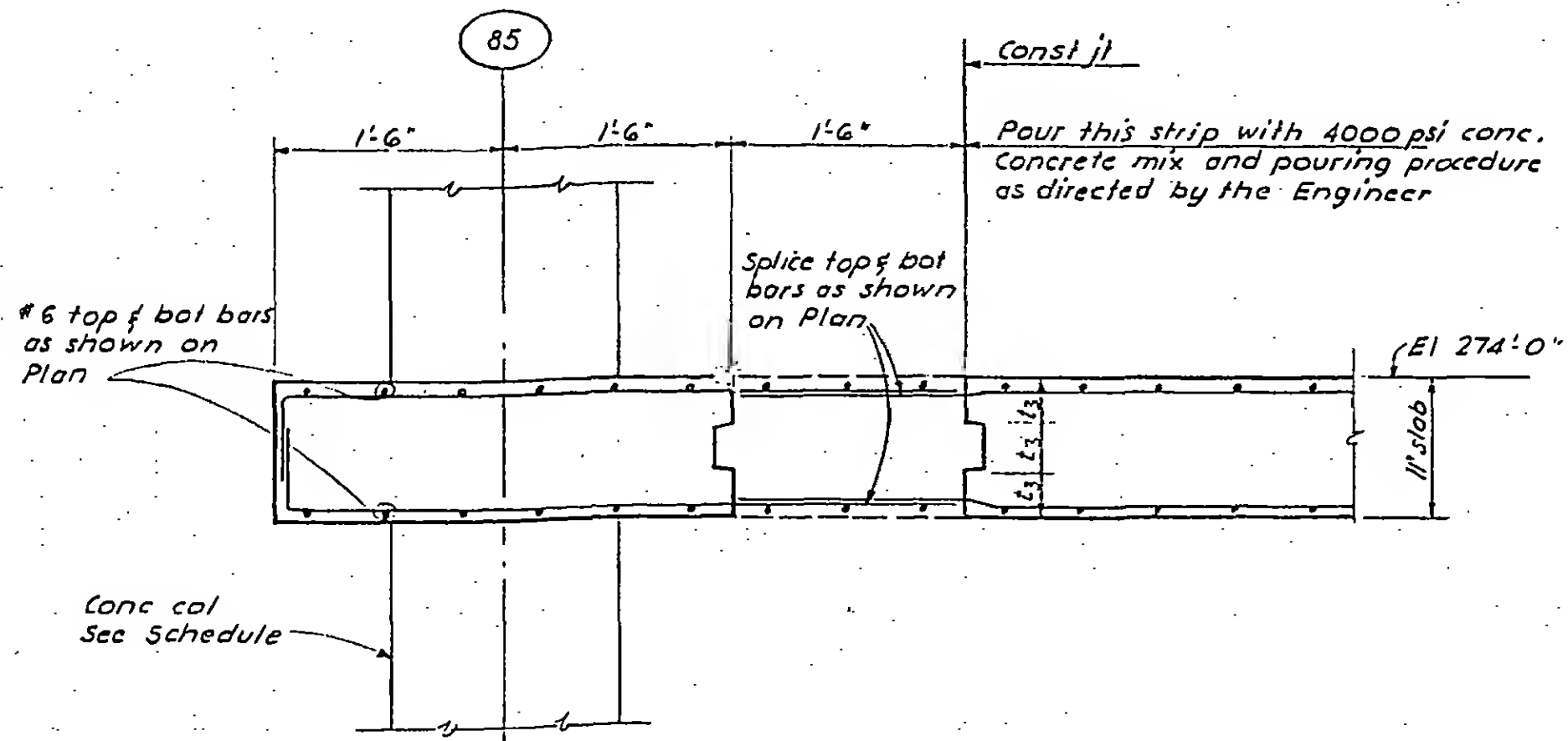
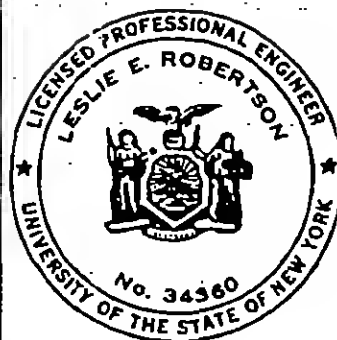
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PROJECT THE WORLD TRADE CENTER

TITLE SECTION AT EL 274'-0"

DATE 4-21-69

REVISIONS

Section C-C

DESIGNED

DRAWN

F. Smith

REVIEWED

E.L.

8-JK8-51.3

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

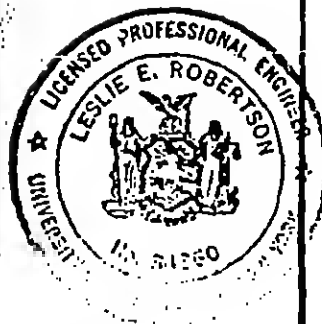
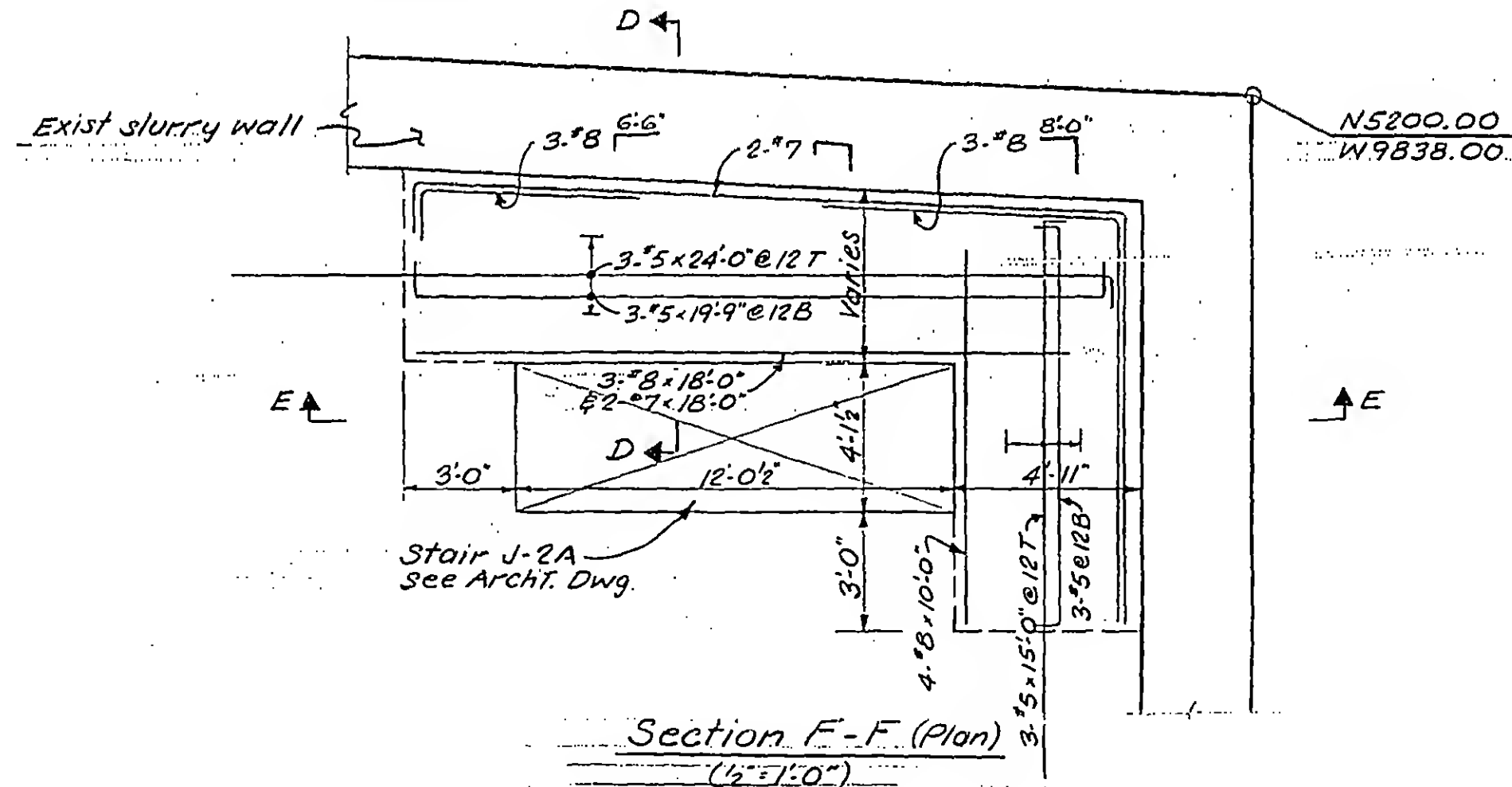
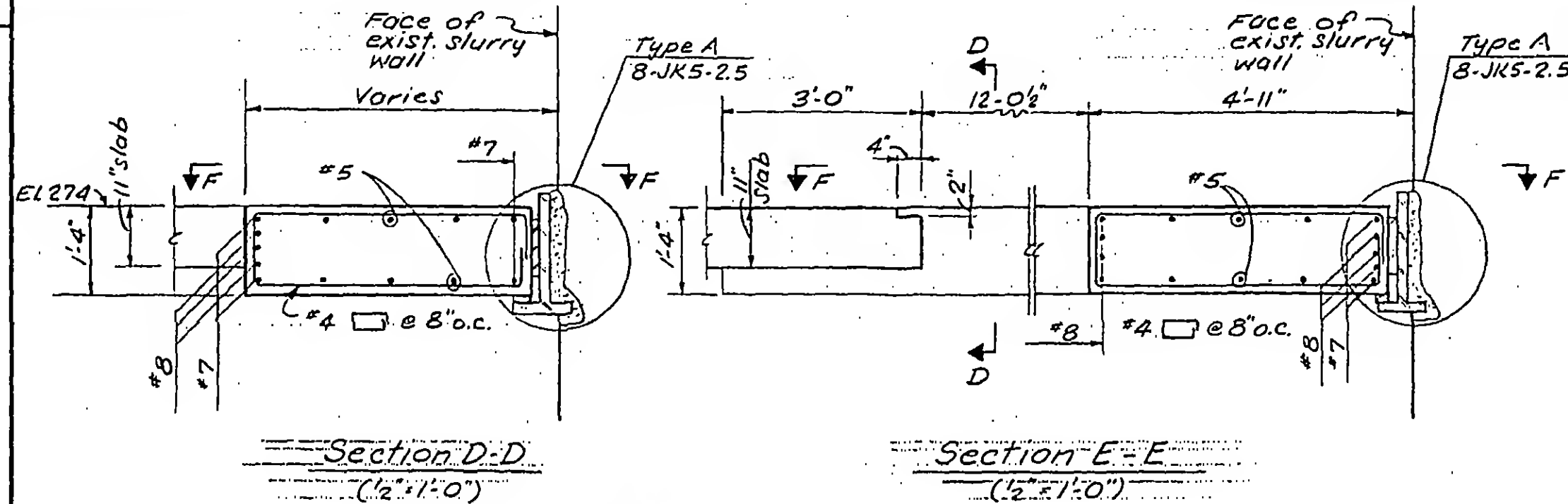
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PROJECT THE WORLD TRADE CENTER

TITLE SECTION AT EL. 274'-0"

DATE 6-27-69

REVISIONS



DESIGNED

DRAWN

F. Smith

REVIEWED

E.L.

8-JK8-51.4

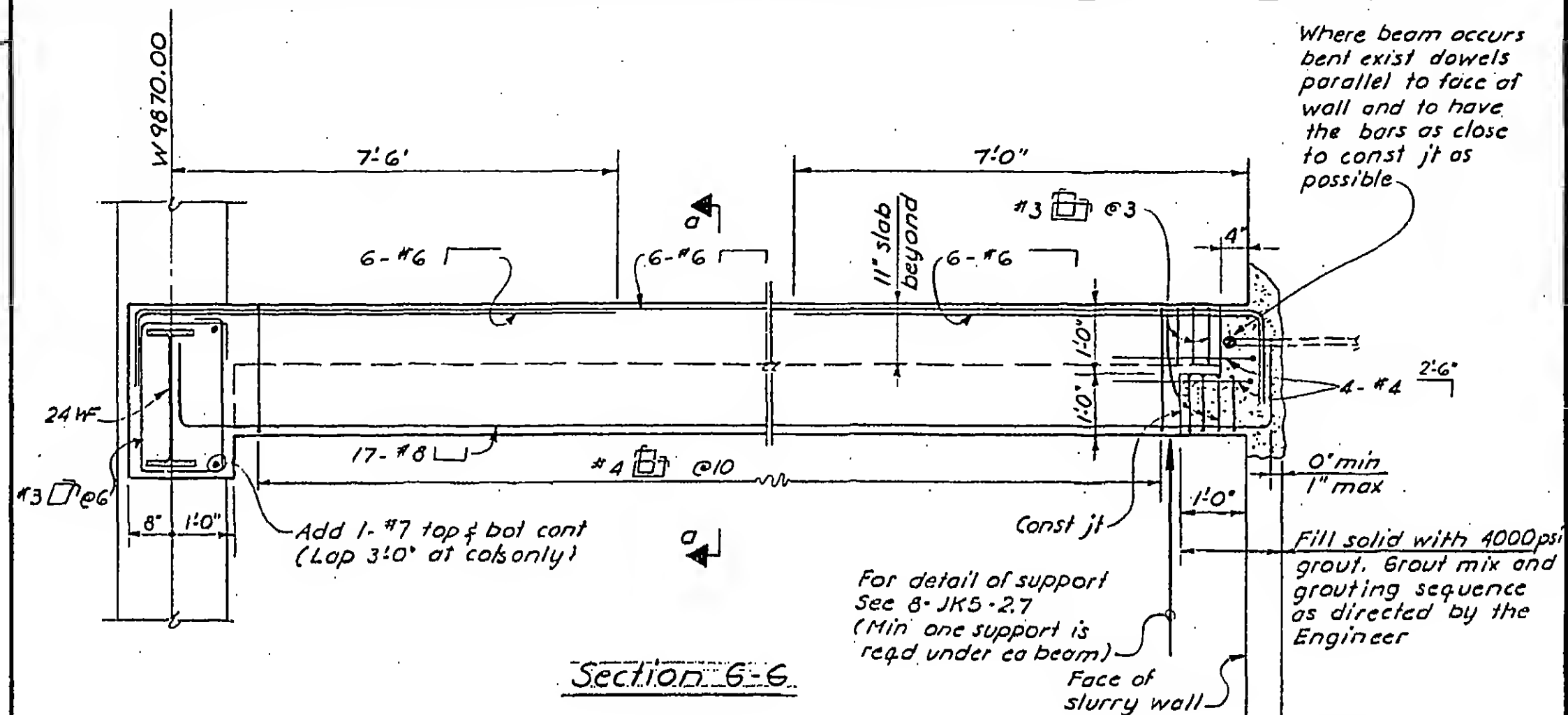
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

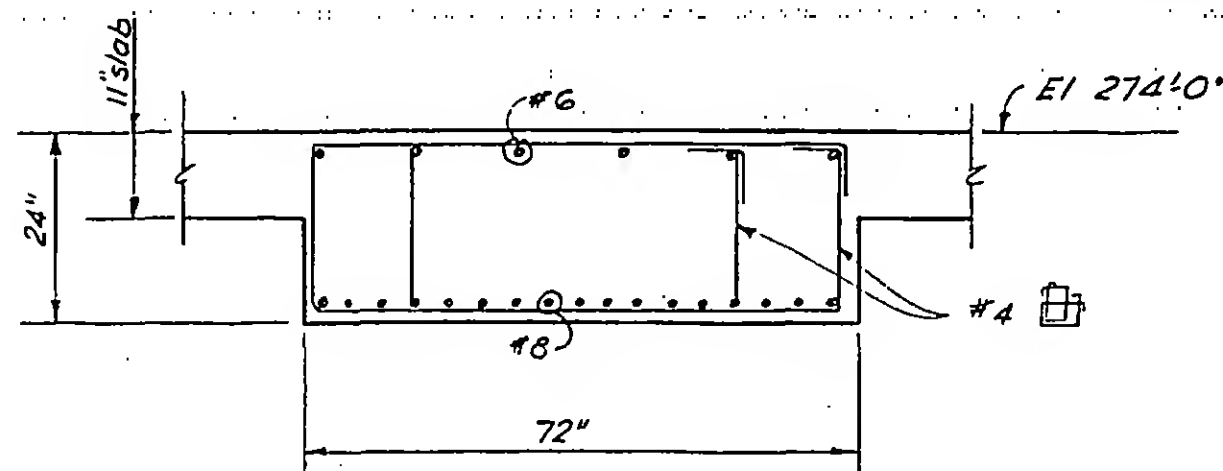
TITLE SECTION AT EL 274'-0"

DATE 6-27-69

REVISIONS



Section 6-6



Section a-a



DESIGNED

DRAWN

F. Smith

REVIEWER

E.L.

8-JK8- 51.5

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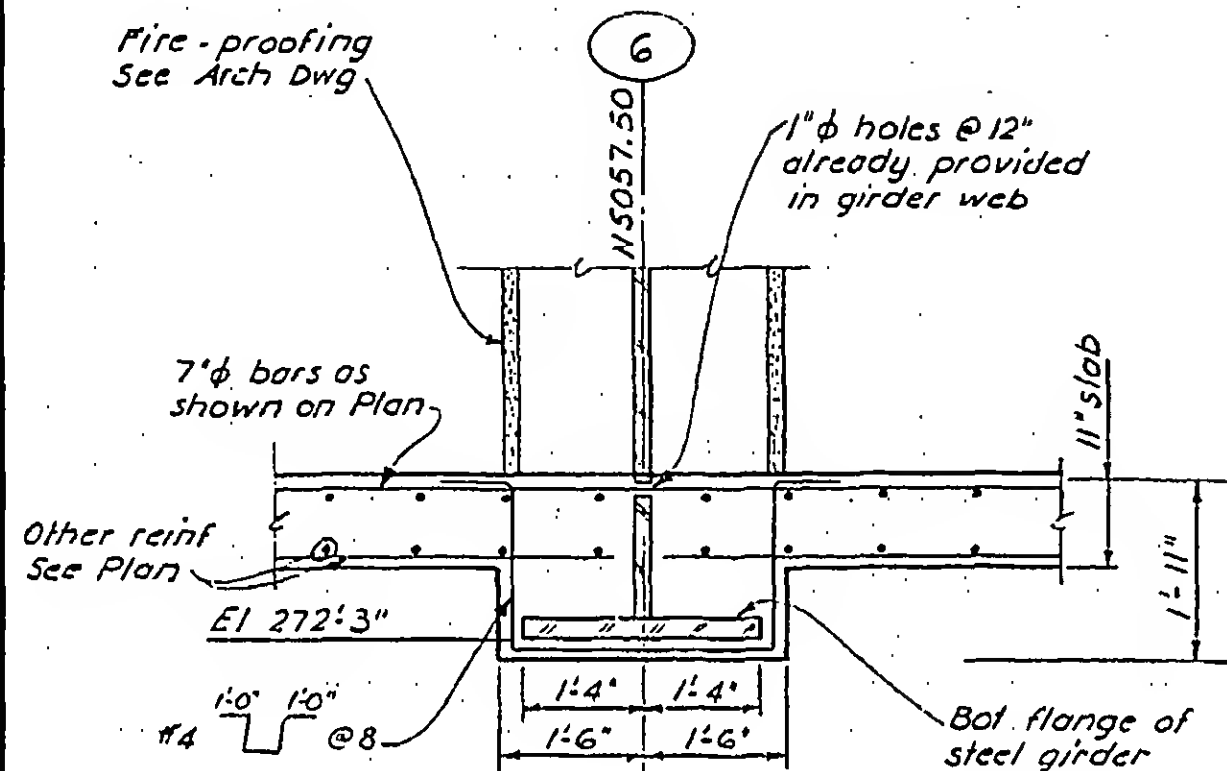
PROJECT THE WORLD TRADE CENTER

TITLE SECTION AT EL 274'-0"

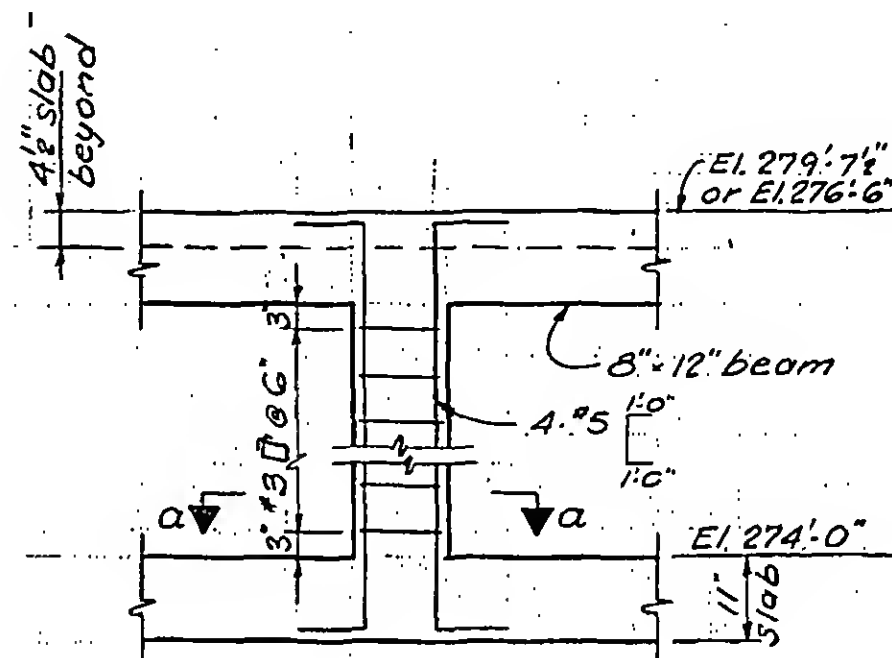
DATE 6-27-69

REVISIONS

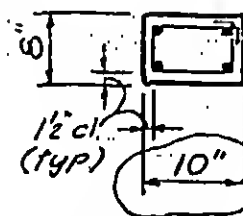
9-26-69



Section H-H
(5'-1'-0")



Section J-J
(1'-0")



Section alpha-alpha
(1'-0")



DESIGNED

DRAWN

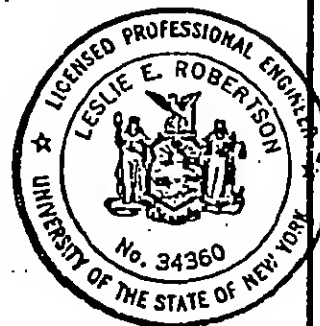
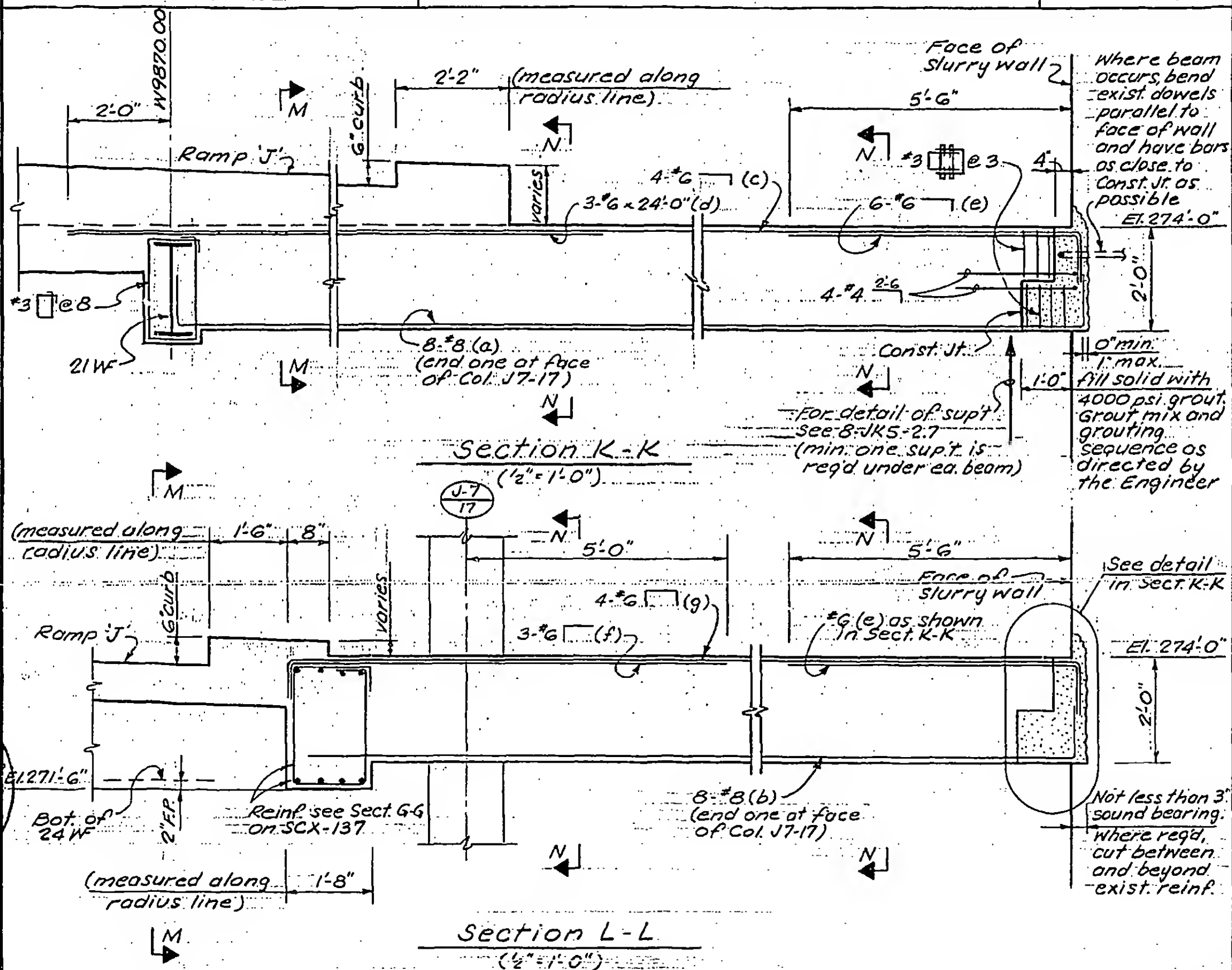
F. Smith

REVIEWED

E.L.

8-JK8-51.6

REVISIONS



DESIGNED

DRAWN
S.C.

REVIEWED
E.L.

8-JK8-51.7

SKILLING, HELLE. CHRISTIANSEN, ROBERTSON

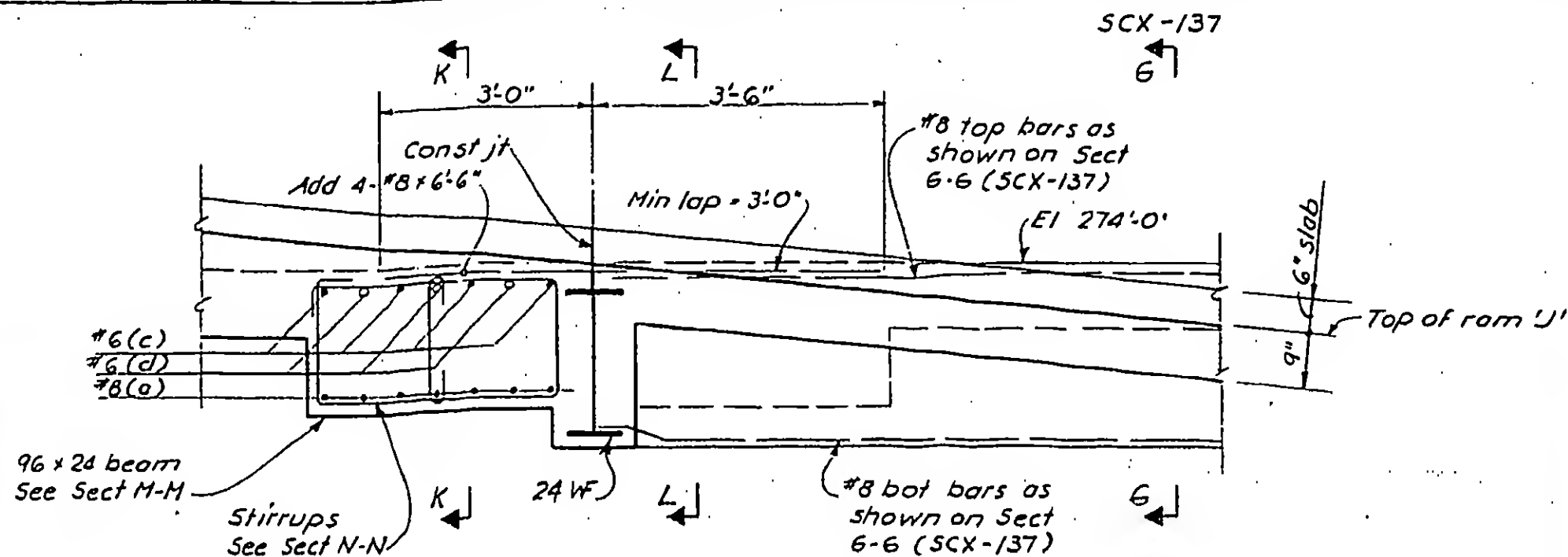
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

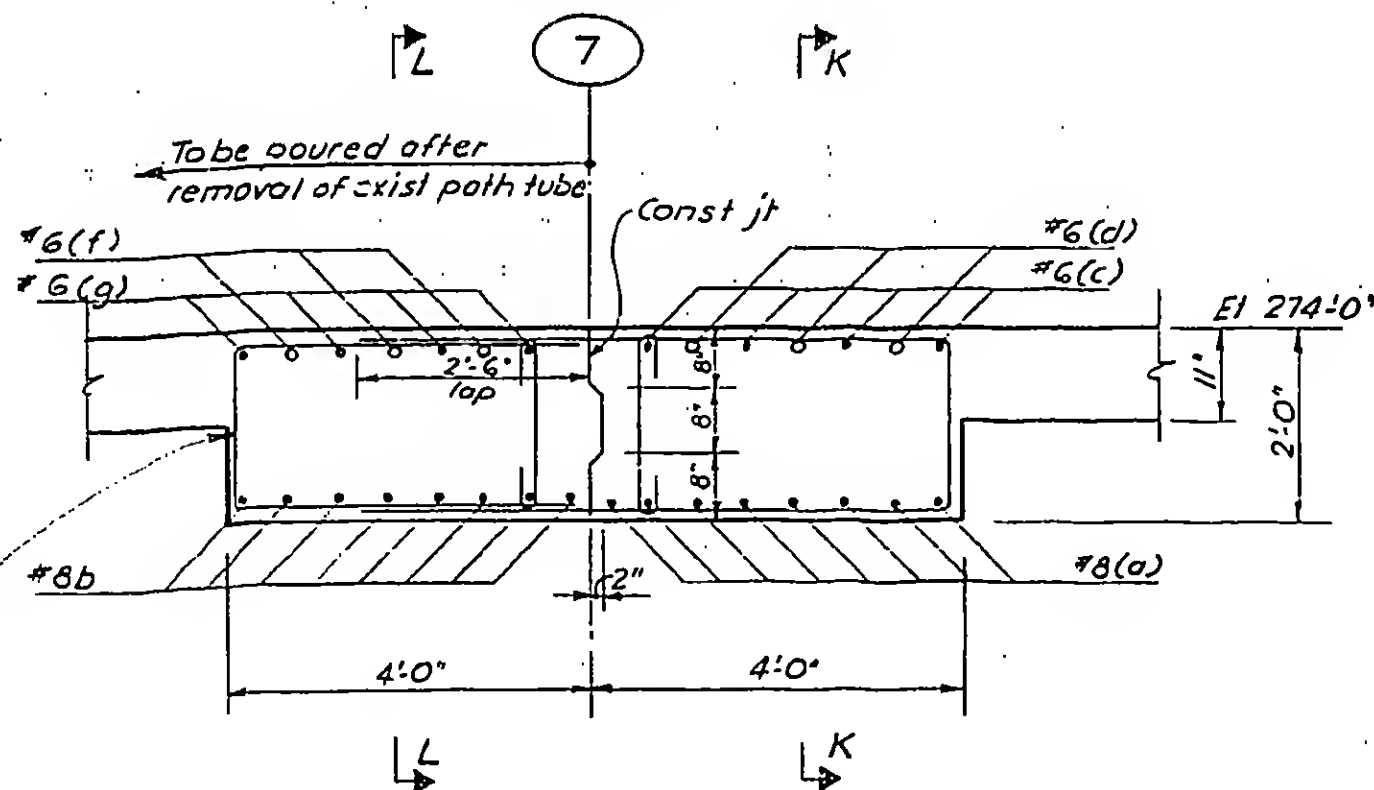
TITLE SECTIONS AT EL. 274'-0"

DATE 7-14-69

REVISIONS

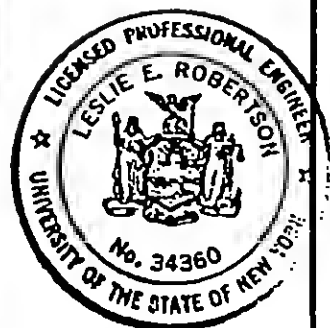


Section M-M
(1/2" = 1'-0")



Section N-N
(1/2" = 1'-0")

Stirrups:
East of J7-17
#4 @ 10
West of J7-17
#4 @ 10



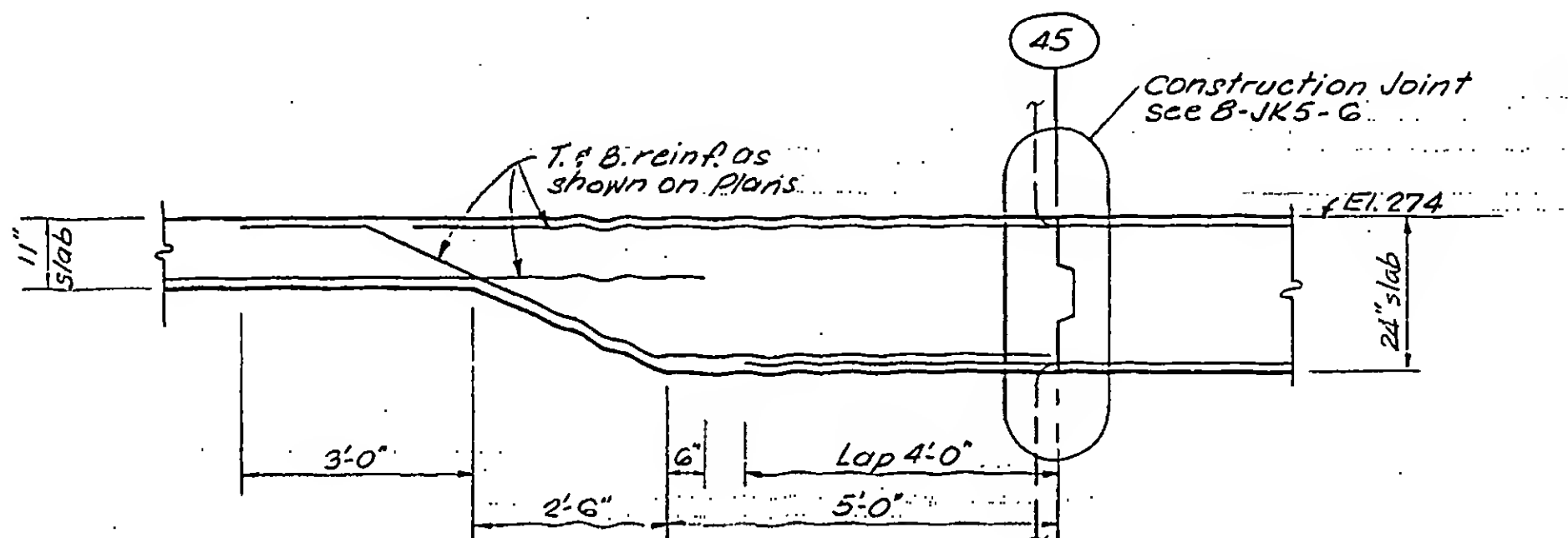
DESIGNED

DRAWN E. Smith

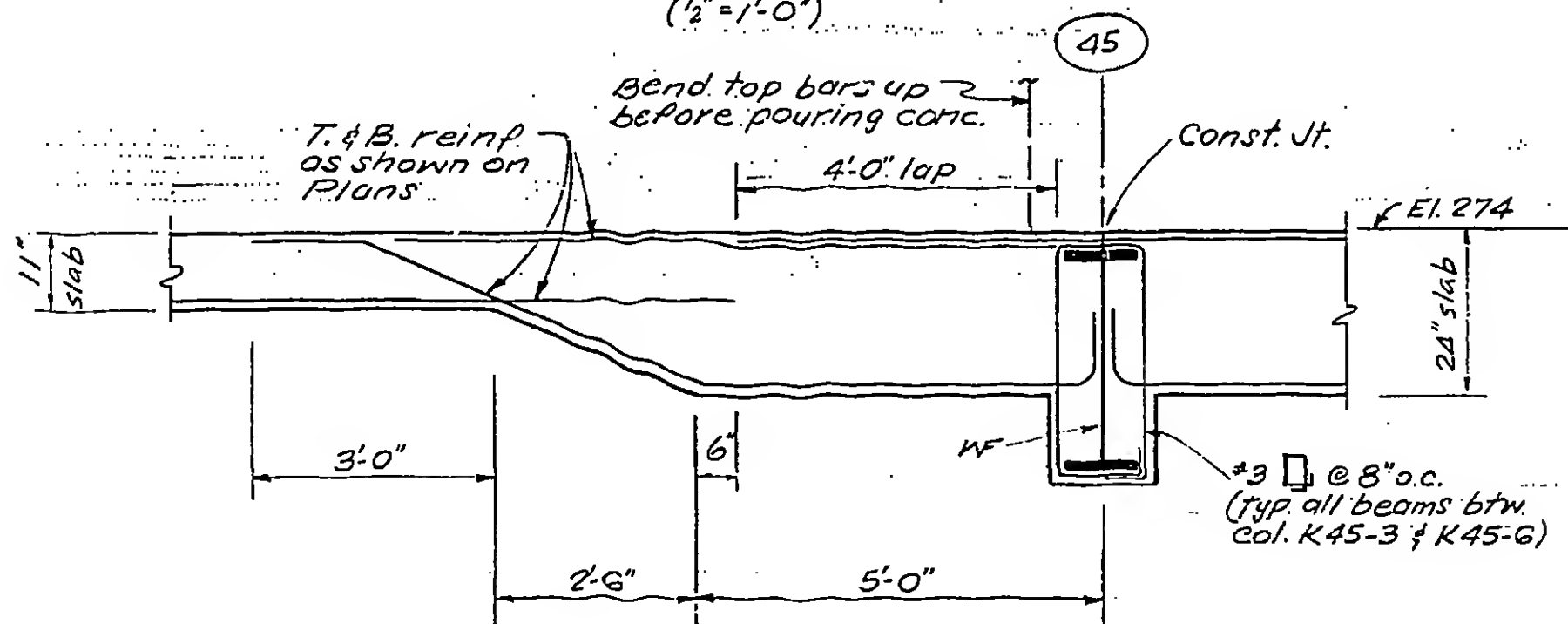
REVIEWED E.L.

8-JK8-51.8

REVISIONS



Section P-P
(1/2" = 1'-0")



Section Q-Q
(1/2" = 1'-0")



DECISION

DRAWN
S.C.

REVIEWED
E.L.

8-JK8-51.9.

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

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PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT EL. 274'-0"

DATE 8-25-69

REVISIONS

T & B bars as
shown on Plan

const. Jt.

Bend top bars up
before pouring
concrete#3 \square @ 8" o.c.
(typ. all beams
btw. col. K47-3 &
K47-6)Add #5 \square @ 12"
(typ. other side)

Section R-R

(1/2" = 1'-0")

Add 6-#7 btw
top bars over
supports

Add 4-#6 @ 6" cont.

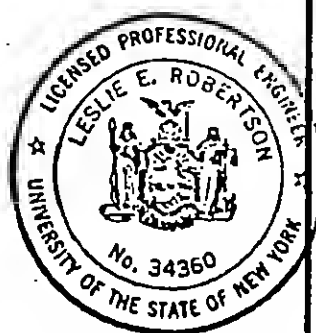
#6 T. bars

#7 @ 6" as
shown on Plan#5 @ 10"
as shown on Plan

Section S-S

(1/2" = 1'-0")

B-JKB-51.10



DESIGNED

DRAWN
S.C.REVIEWED
E.L.

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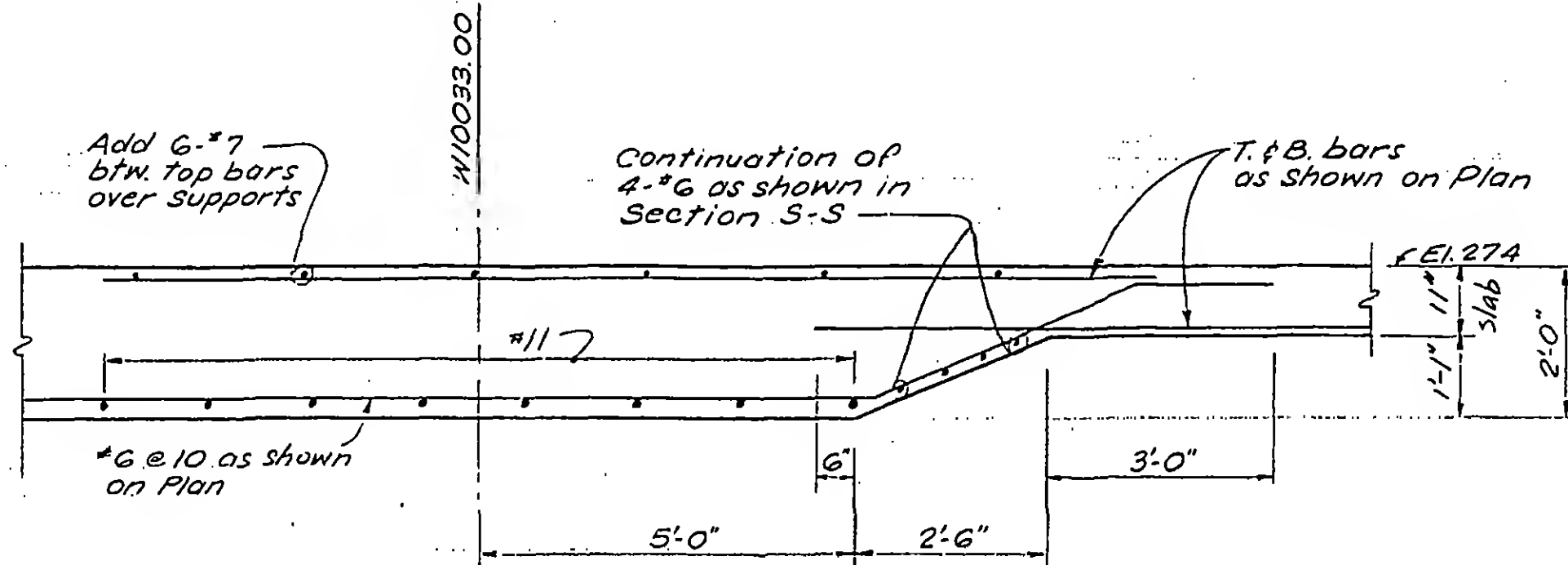
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

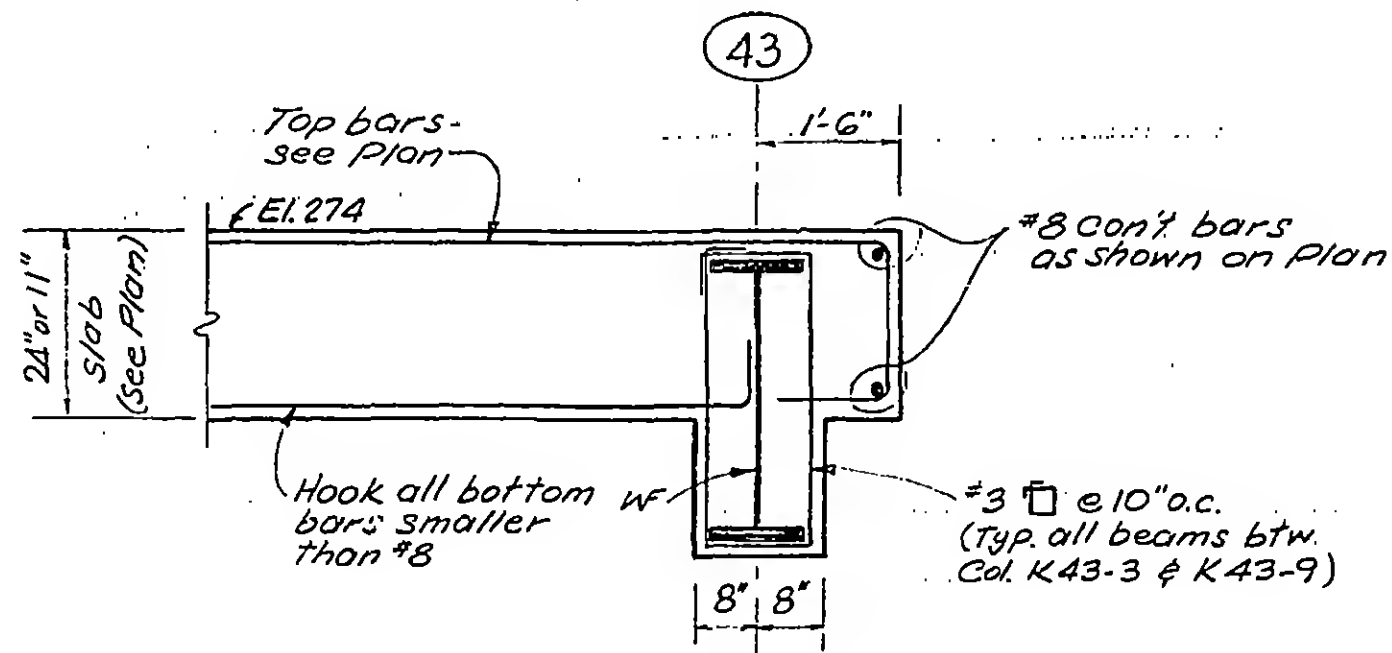
TITLE SECTIONS AT EL. 274'-0"

DATE 8-25-69

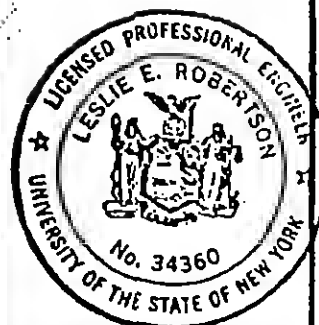
REVISIONS



Section T-T
(1/2" = 1'-0")



Section U-U
(1/2" = 1'-0")



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DRAWN
S.C.REVIEWED
E.L.

8-JKB-51.11

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PROJECT THE WORLD TRADE CENTER

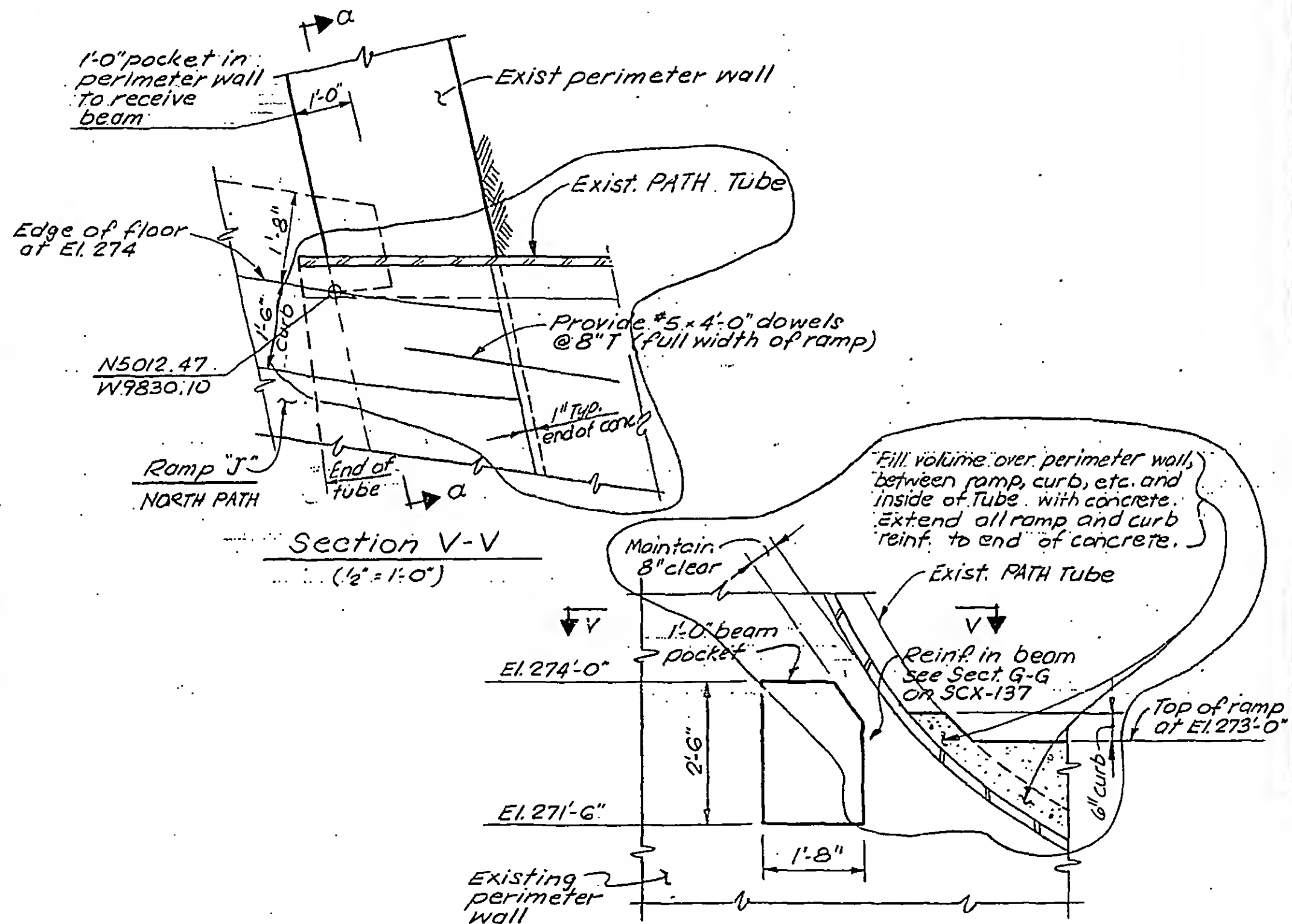
TITLE

SECTIONS AT EL. 274'-0"

DATE 9-12-69

REVISIONS

9-18-72



DESIGNED

DRAWN
S.C.REVIEWED
E.L.

8-JK8-51.12

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

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PROJECT THE WORLD TRADE CENTER

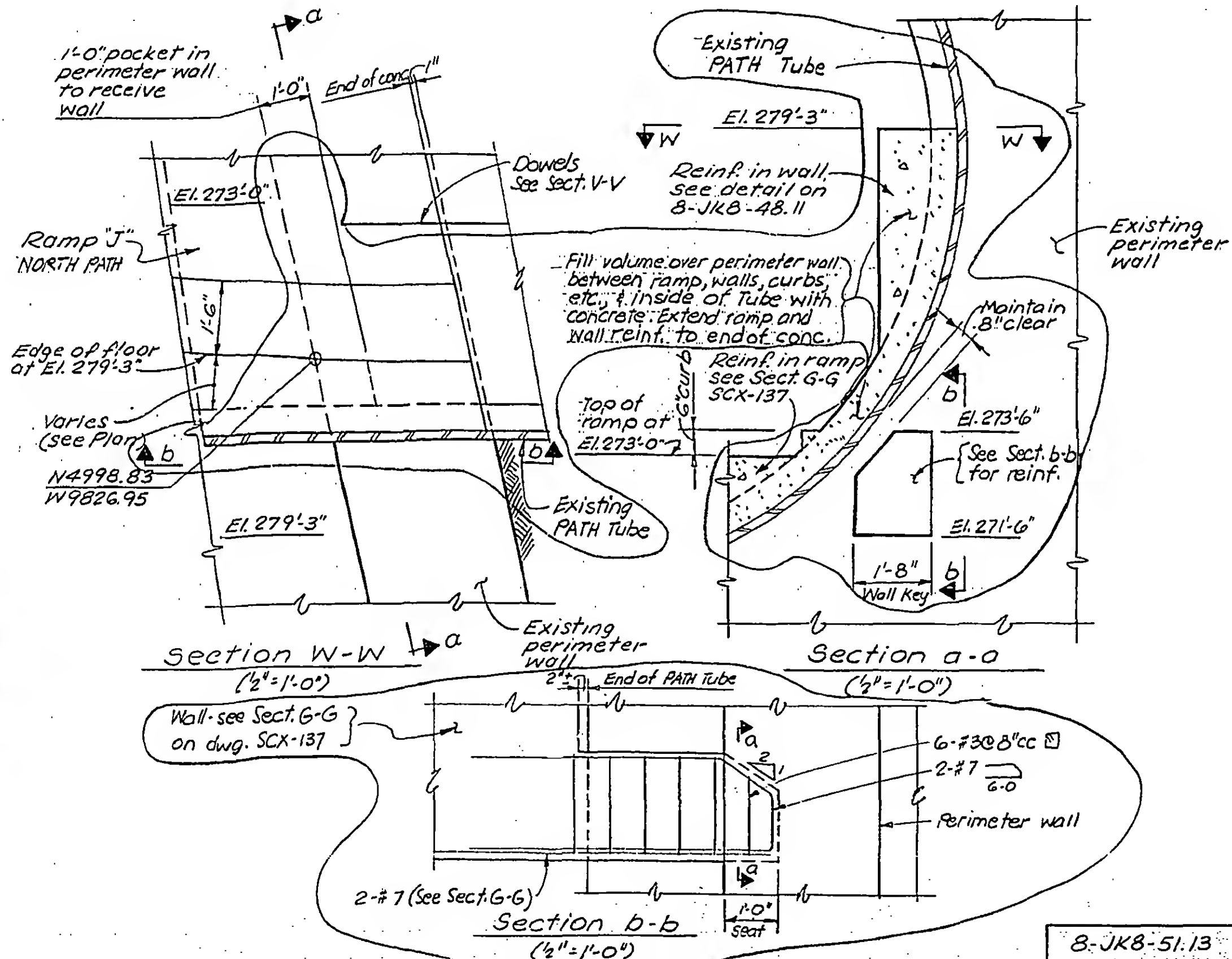
TITLE

SECTIONS AT EL. 274'-0"

DATE 9-12-69

REVISIONS

9-18-72



DESIGNED

DRAWN
S.C.REVIEWED
E.L.

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

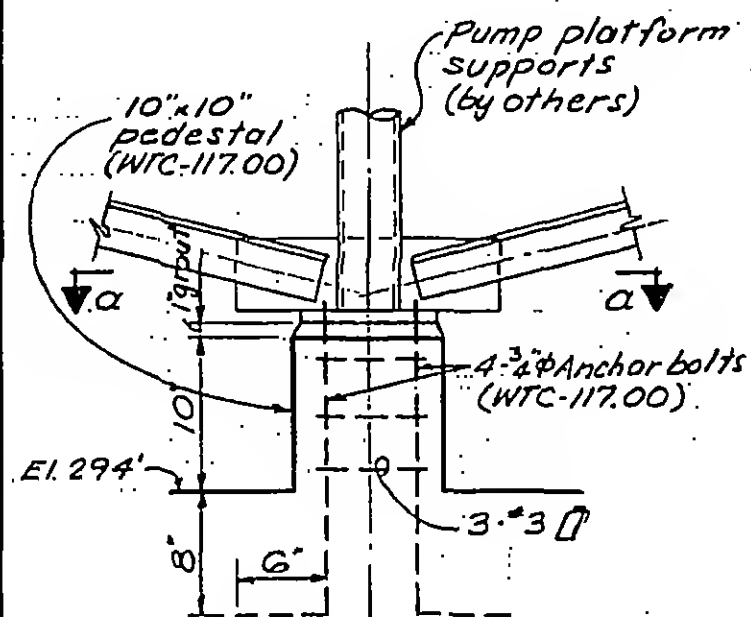
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE PUMP PLATFORM ANCHOR BOLT DETAILS

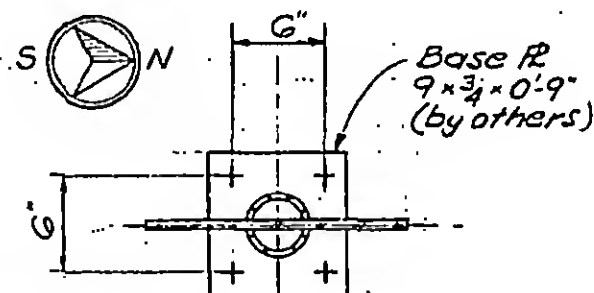
DATE 4-29-69

REVISIONS

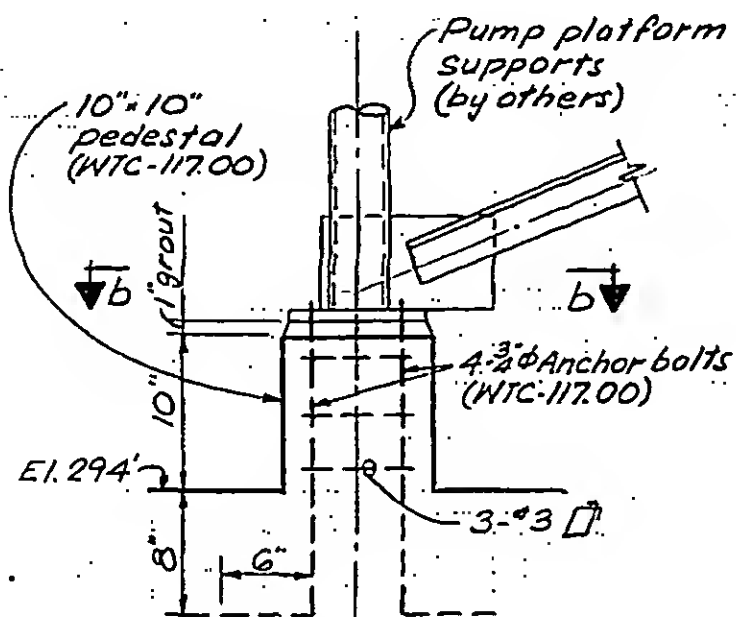


Detail-H

(SCJ-79)

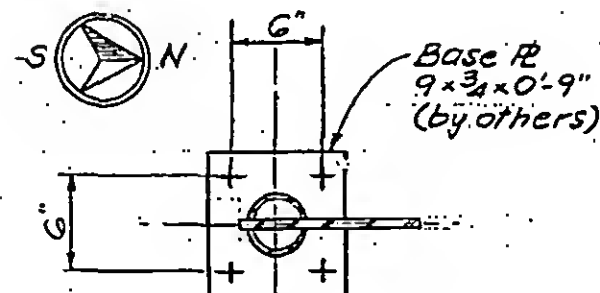


Section a-a

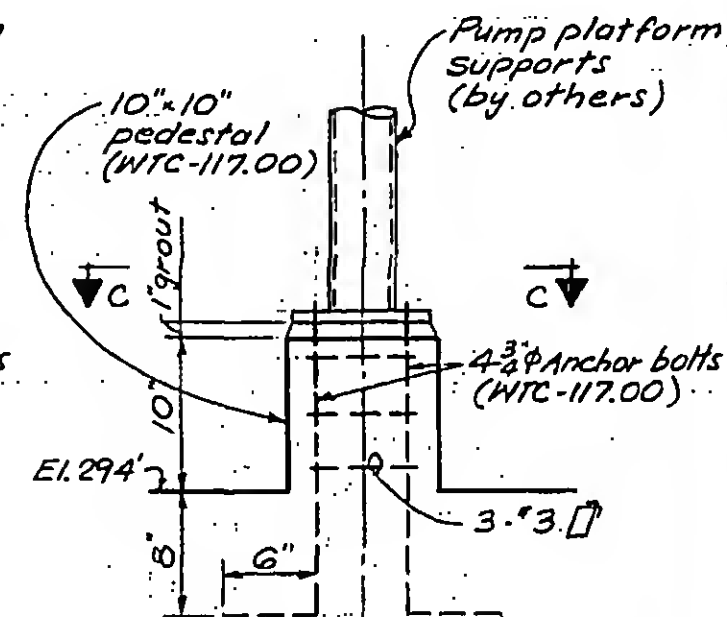


Detail-J

(SCJ-79)

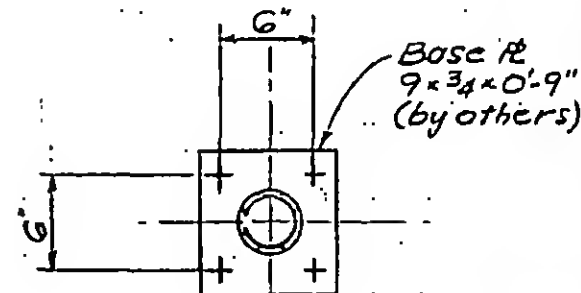


Section b-b



Detail-K

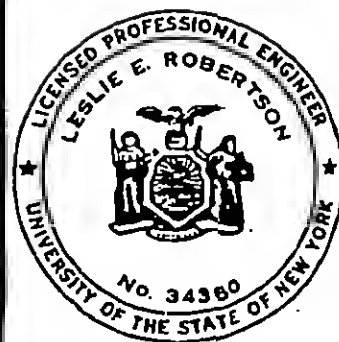
(SCJ-79)



Section c-c

Notes:

1. Contractor to provide and install all $\frac{3}{4}$ " ϕ A. bolts with proper nuts & spring washers at top.
2. Contractor to coordinate with Archt. dwgs & Platform shop dwgs for exact locations of A. bolts.



DESIGNED

DRAWN

S.C.

REVIEWED

E.L.

8-JK8-52.1

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

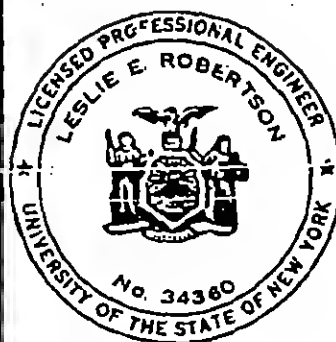
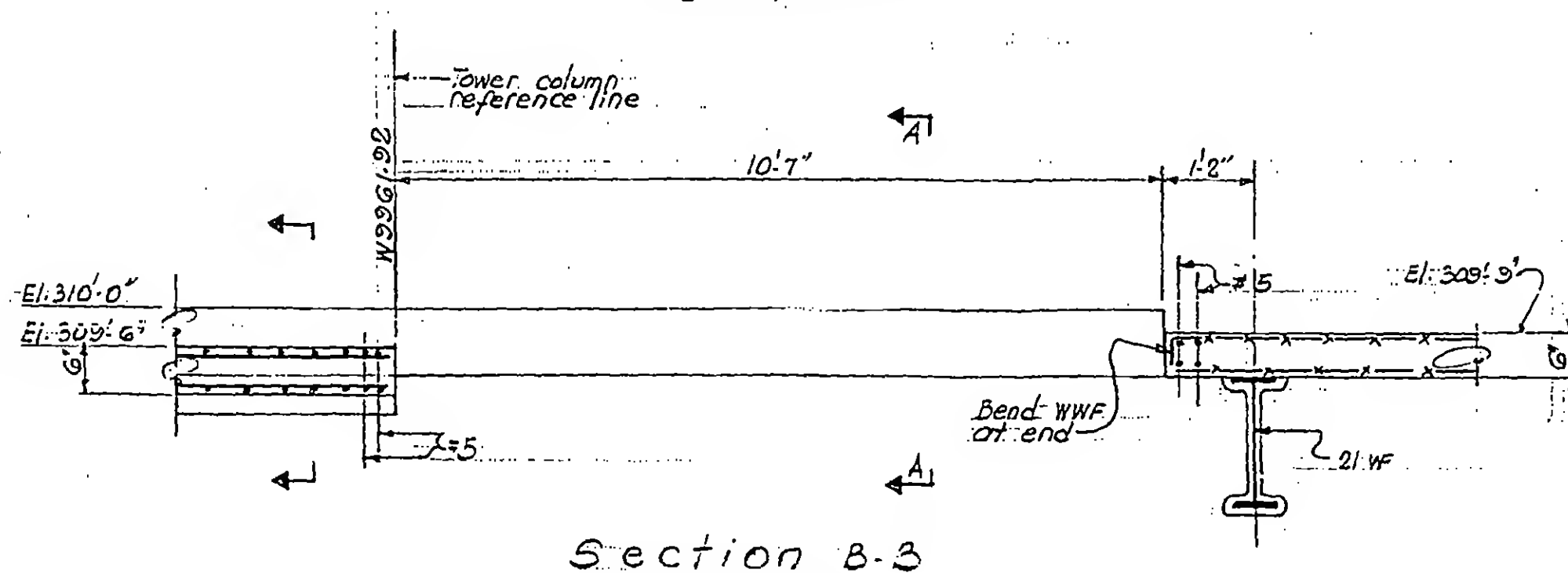
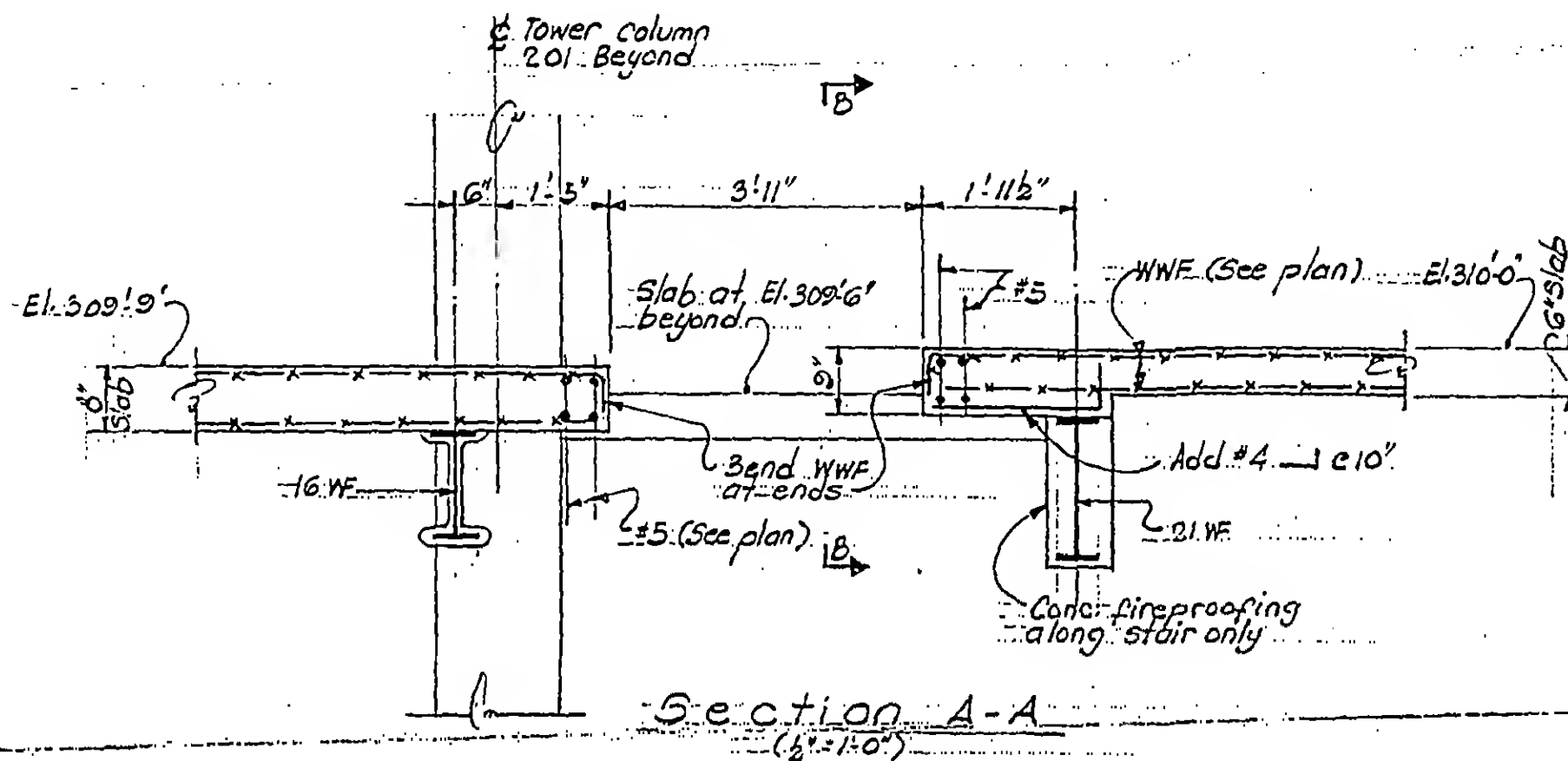
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT EL. 310'-0"

DATE 5-5-69

REVISIONS



DESIGNED

DRAWN
S.T.M.

REVIEWED

E.L.

SKILLING, HELLE. CHRISTIANSEN, ROBERTSON

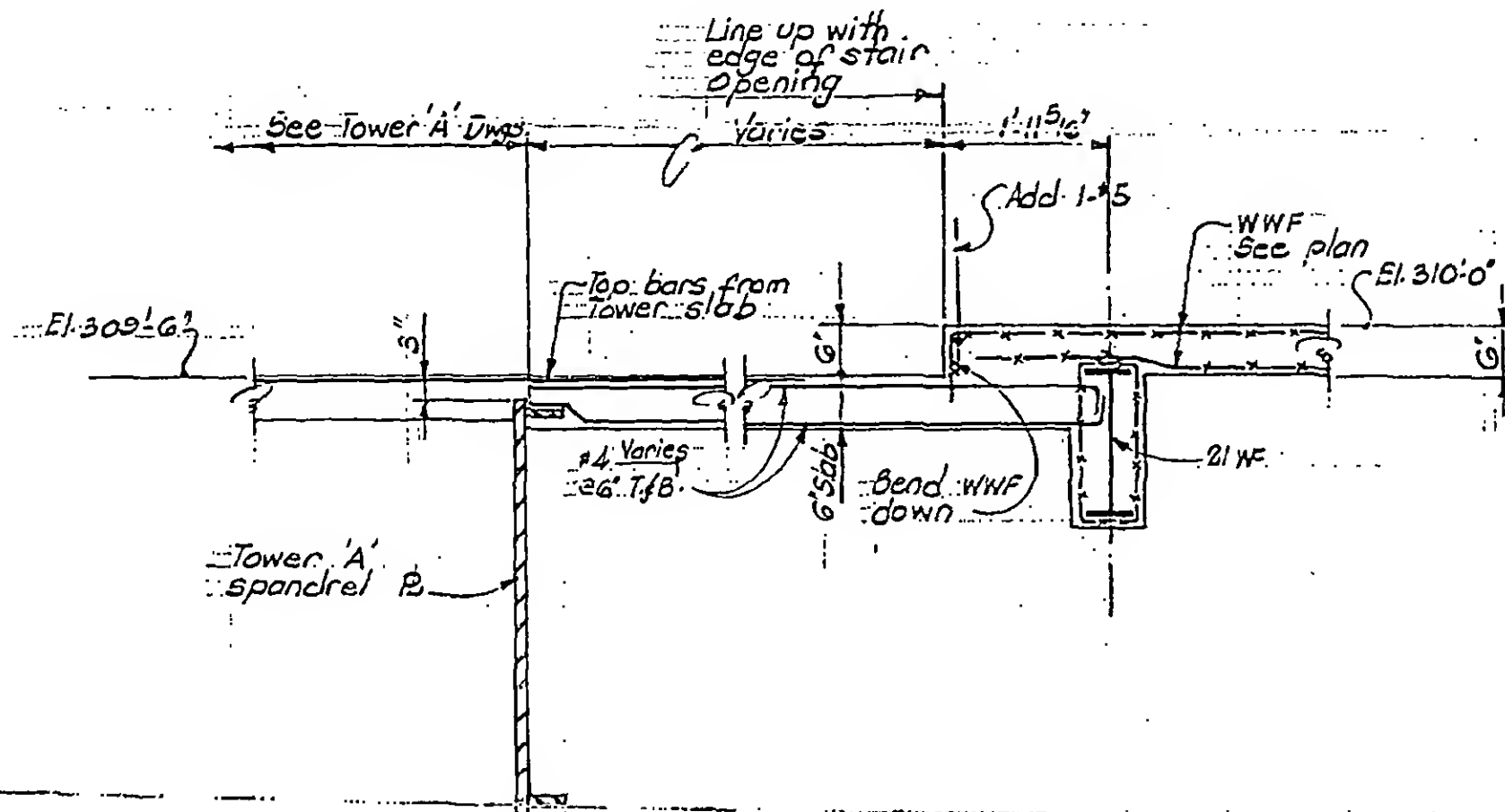
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PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT EL. 310' 0"

DATE 5-5-69

REVISIONS



Section C-C
(1/2" = 1'-0")



DESIGNED

DRAWN
S.T.M.

REVIEWED

8-JK8-54.2

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

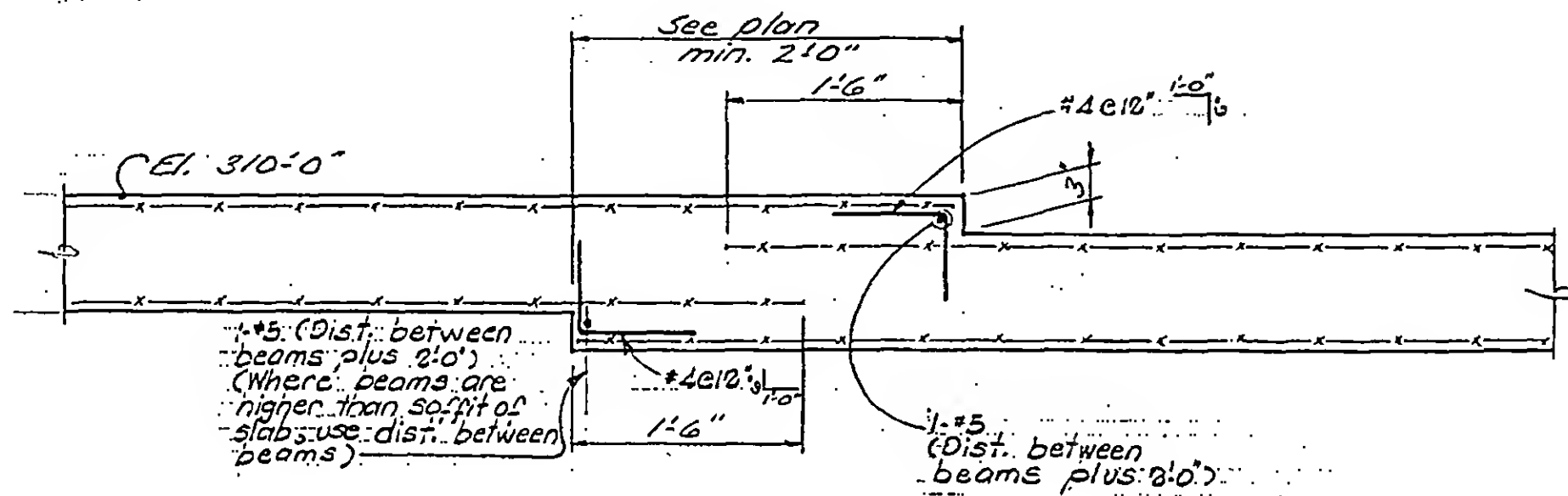
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

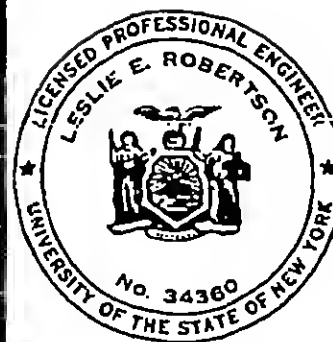
TITLE SECTIONS AT EL. 310'-0"

DATE 5-5-69

REVISIONS



Section D-D



DESIGNED

DRAWN
S.C.

REVIEWED
E.L.

8-JK8-54.3

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

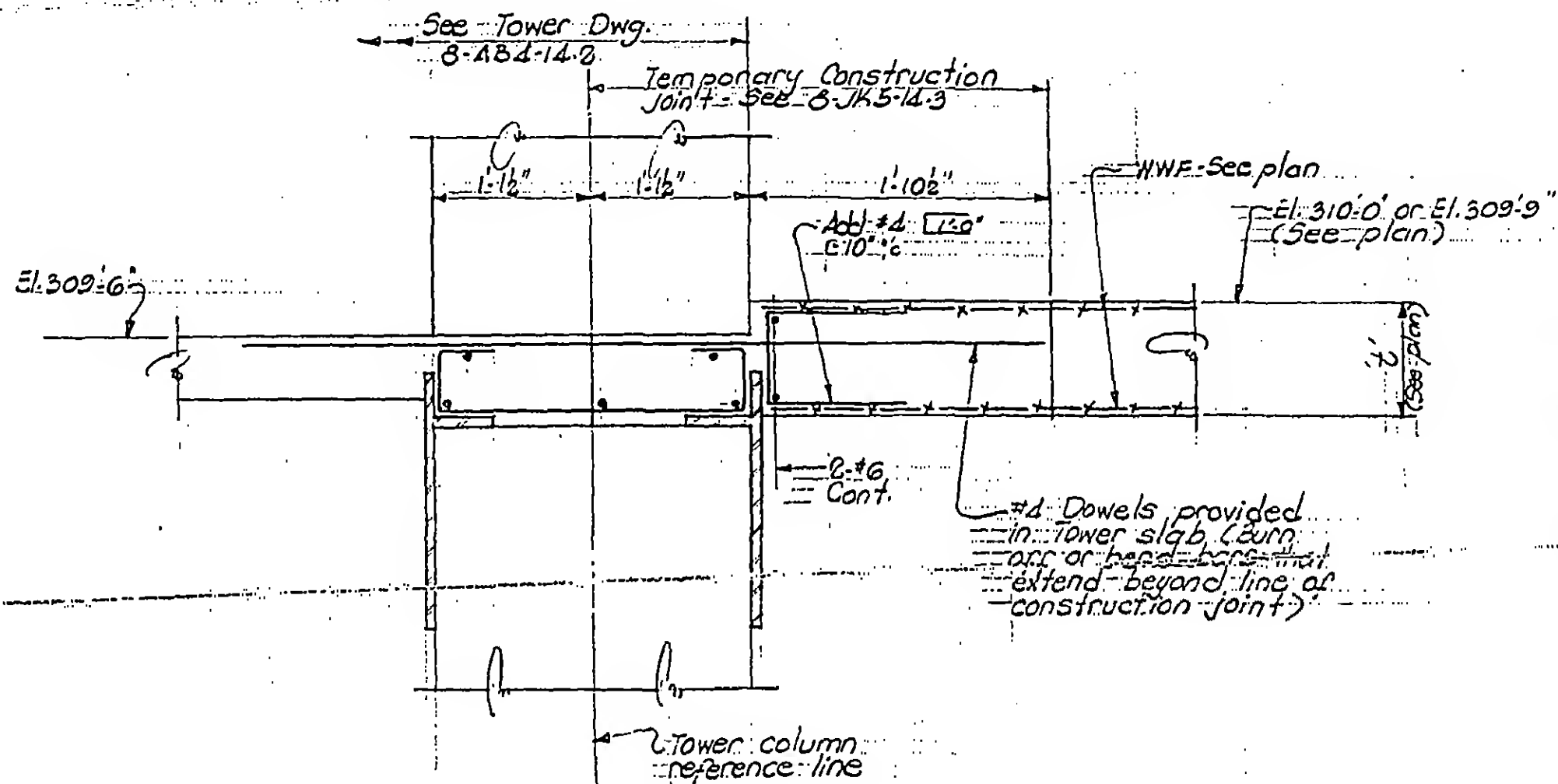
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT EL. 310'-0"

DATE 5-5-69

REVISIONS



Section E-E



DESIGNED

DRAWN

S.T.M.

REVIEWED

E.L.

3-JK8-54.4

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

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PROJECT THE WORLD TRADE CENTER

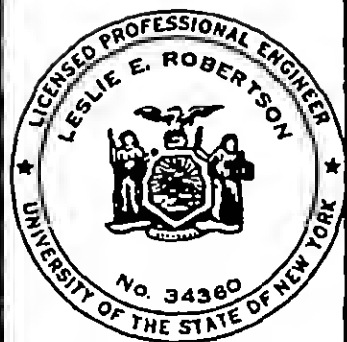
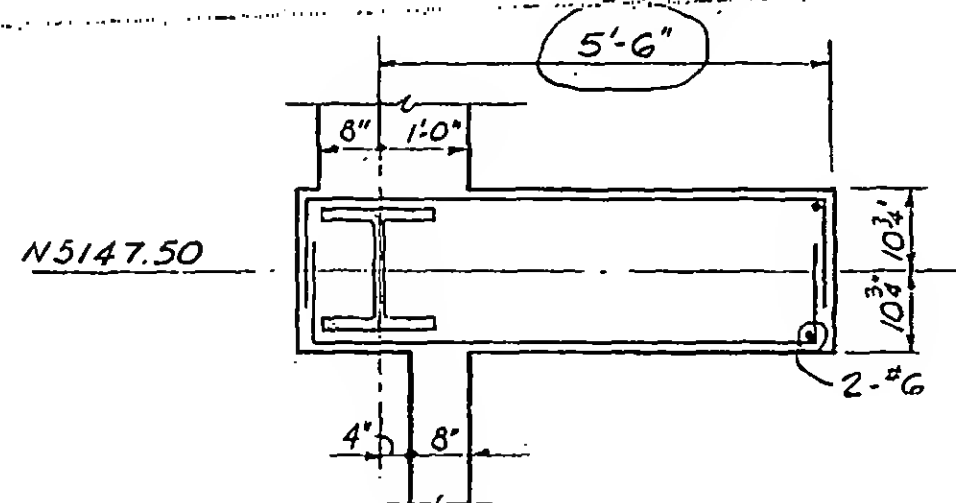
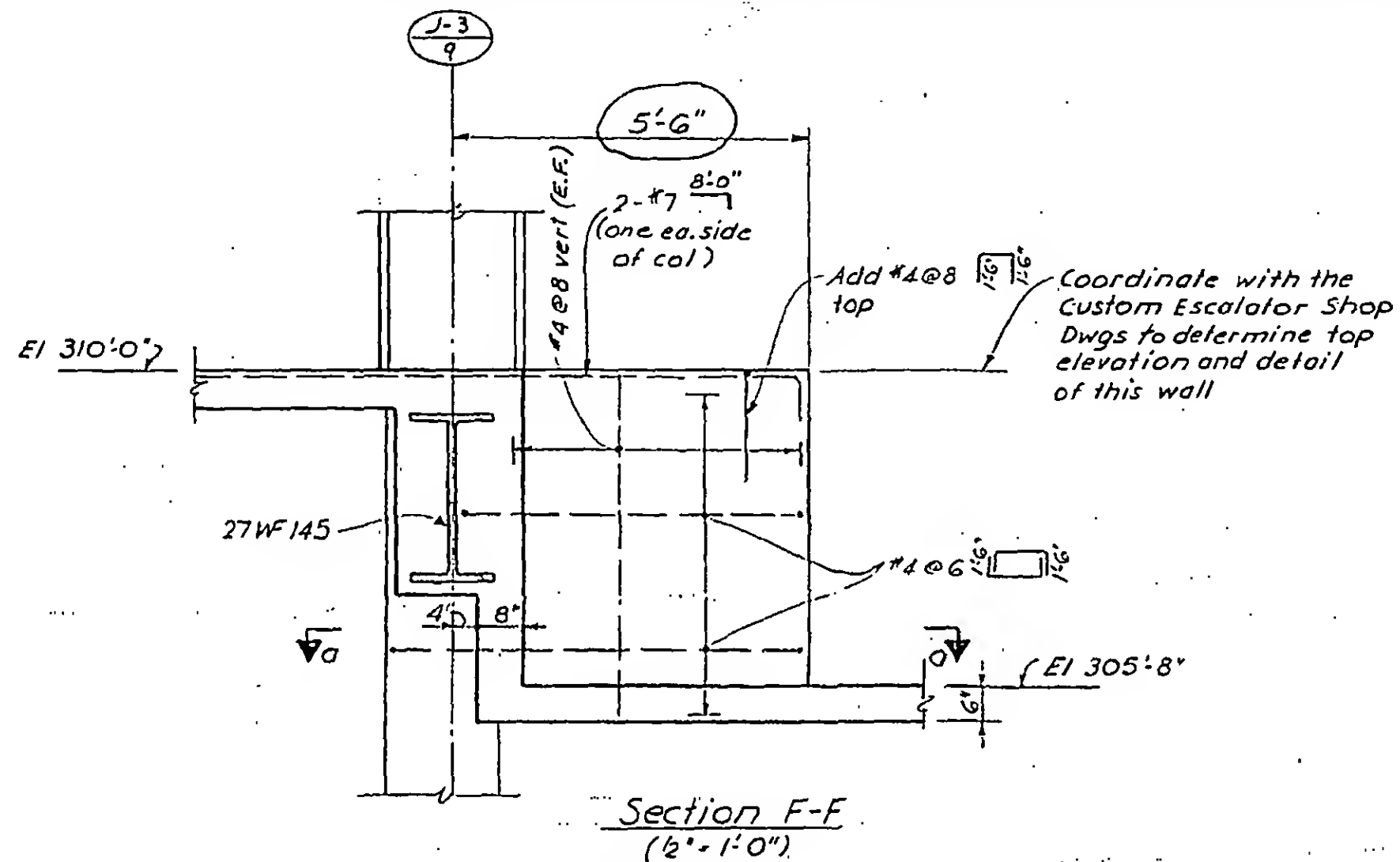
TITLE

SECTIONS AT EL 310'-0"

DATE 6-11-69

REVISIONS

7-16-69



DESIGNED

DRAWN

F. Smith

REVIEWED

E. I.

8-JK8-54.5

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

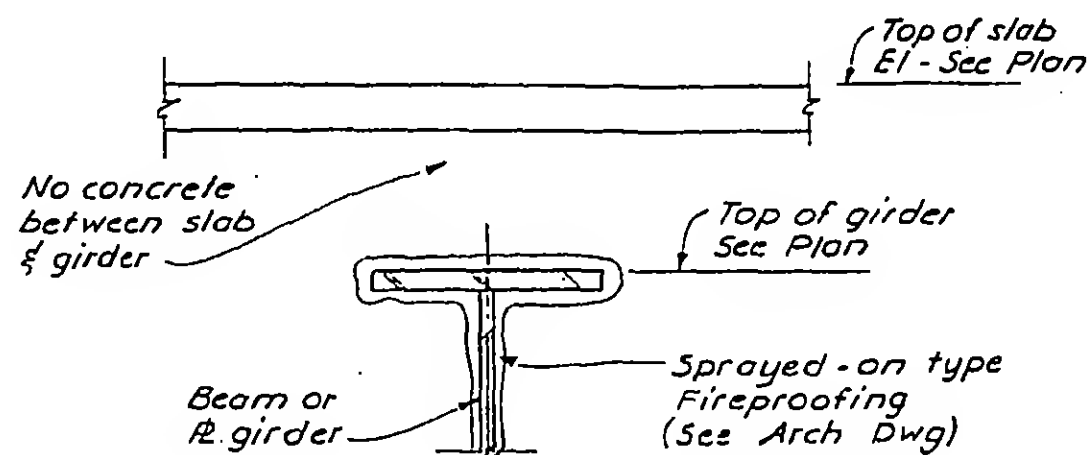
PROJECT THE WORLD TRADE CENTER

TITLE

SECTIONS AT EL 310'-0"

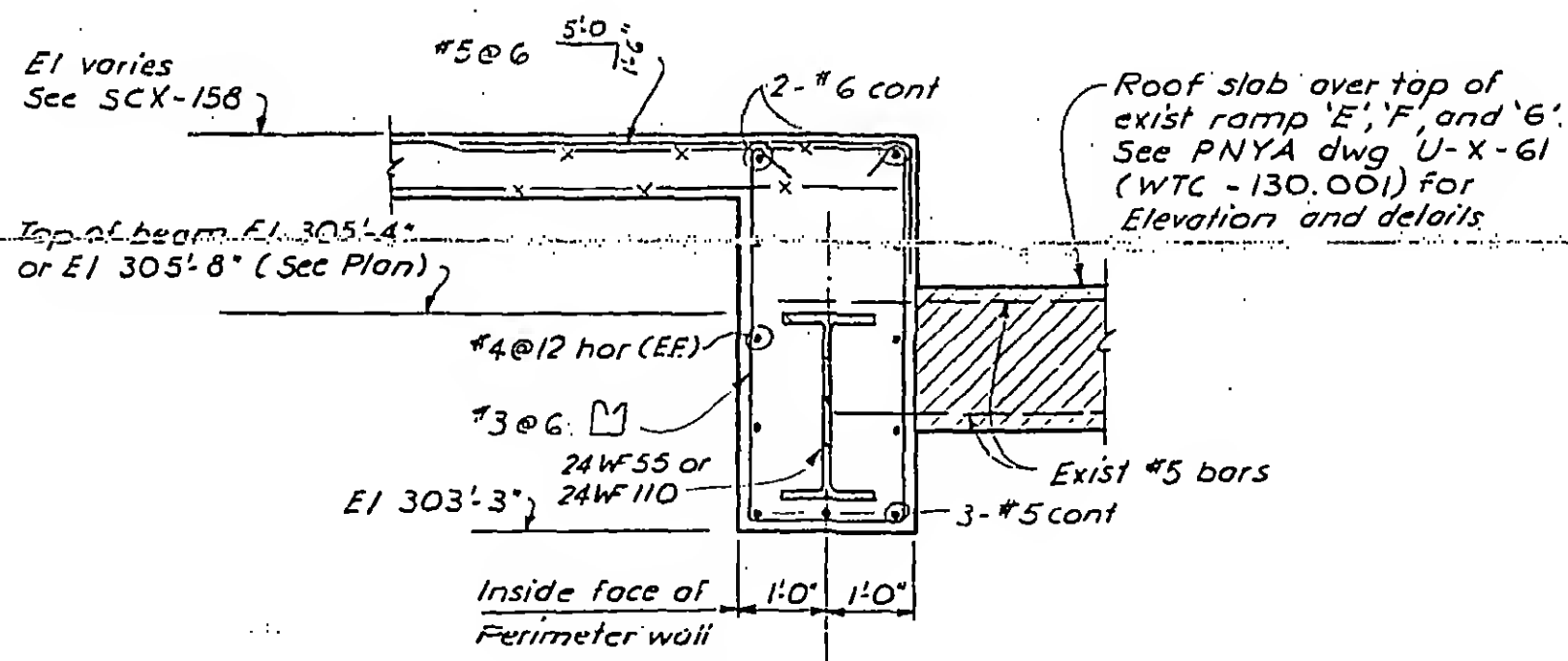
DATE 6-11-69

REVISIONS



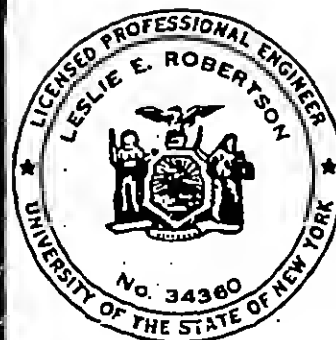
Section 6-6

(No scale)



Section H-H

(1/2" = 1'-0")



DESIGNED

DRAWN
E. Smith

REVIEWED

E.L.

8-JK8-54.6

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

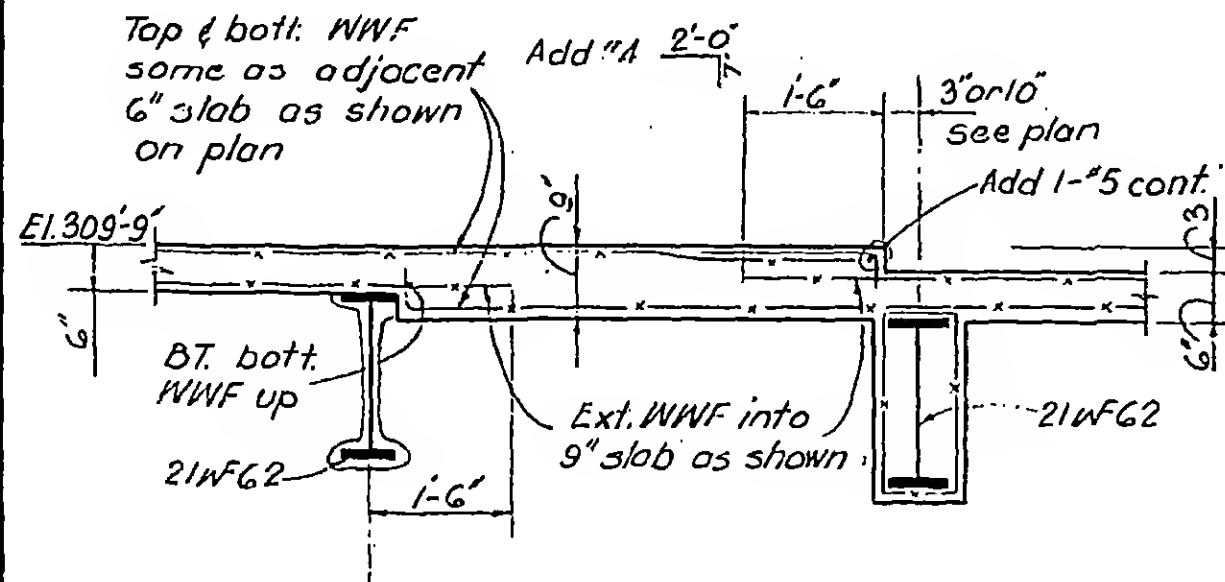
PROJECT *THE WORLD TRADE CENTER*

TITLE

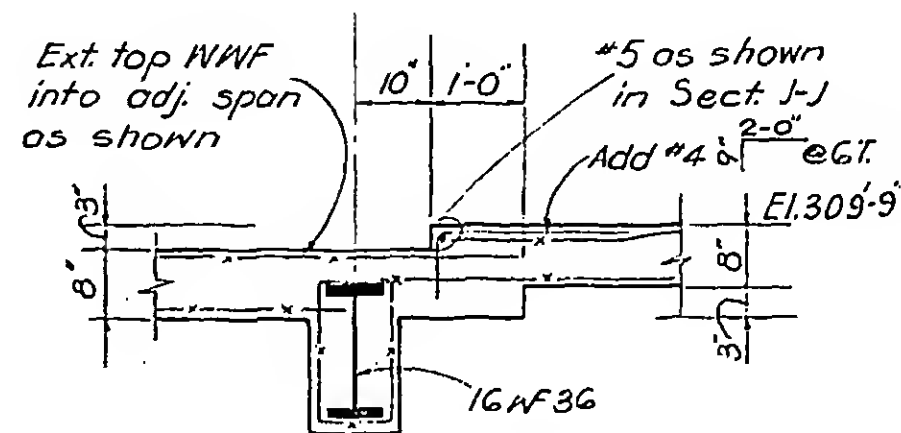
SECTIONS AT EL. 310'-0"

DATE 10-1-69

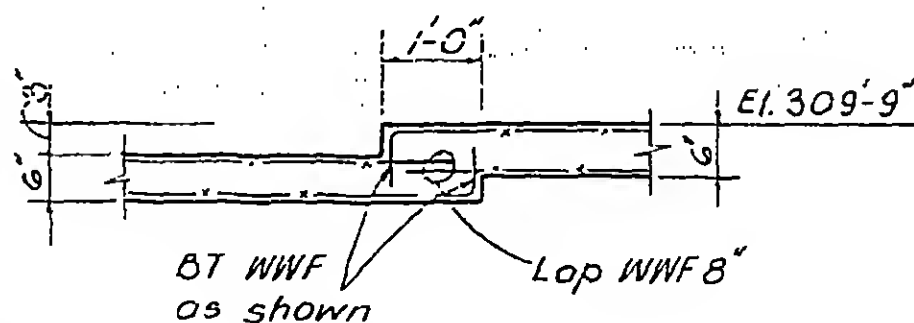
REVISIONS



SECTION J-J
(1/2"=1'-0")



SECTION K-K
(1/2"=1'-0")



SECTION L-L
(1/2"=1'-0")



DESIGNED

DRAWN
D.U.REVIEWED
E.L.

8-JK8-54.7

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

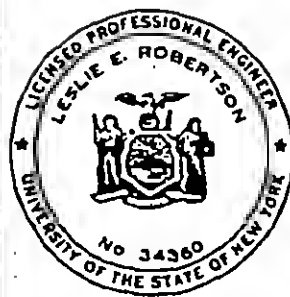
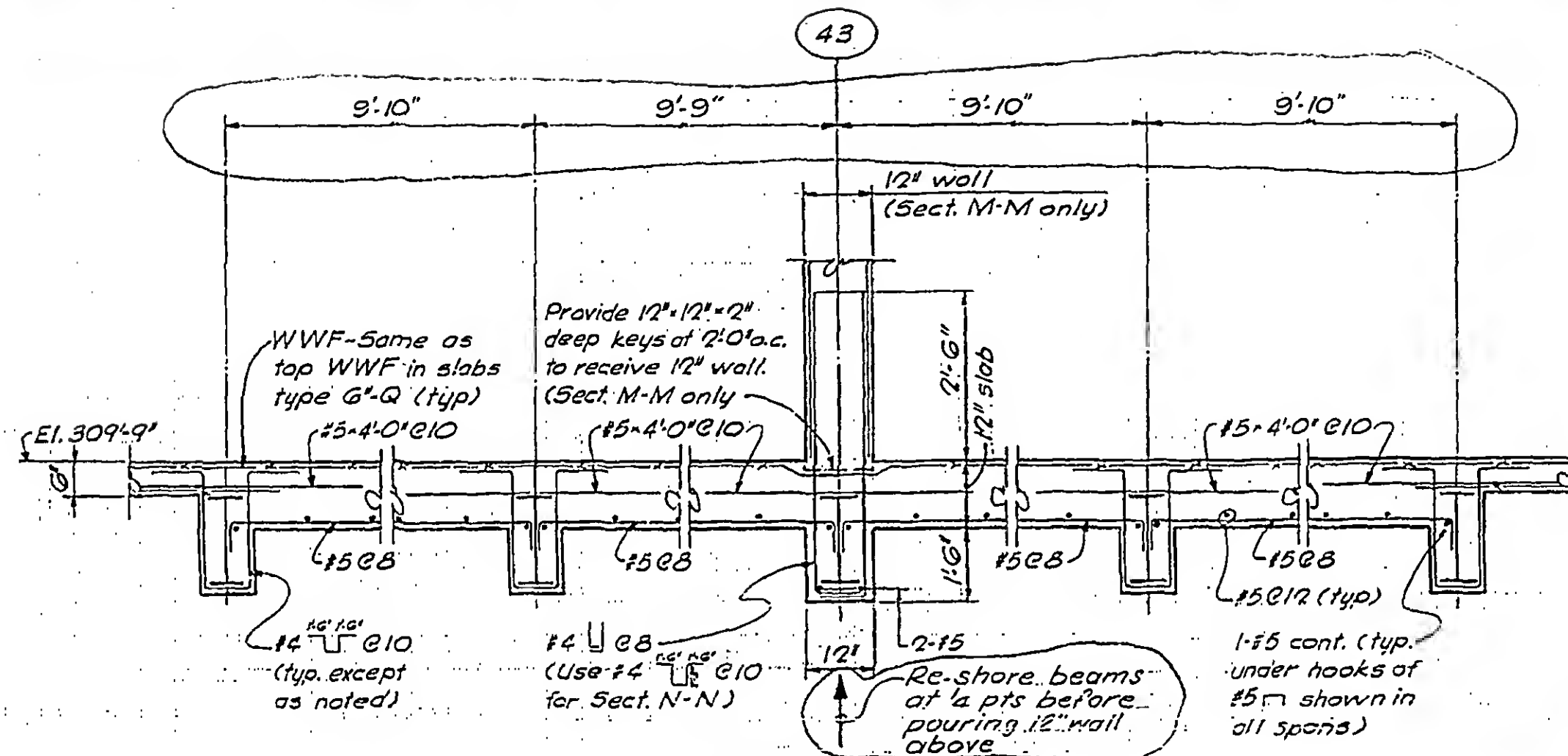
PROJECT THE WORLD TRADE CENTER

TITLE SECTION AT EL. 310'-0"

DATE 11-5-69

REVISIONS

11-25-69

DESIGNED
E.L.DRAWN
G.K.

REVIEWED

8-JK8-54.8

Structural & Civil Engineers

PROJECT *THE WORLD TRADE CENTER*

TITLE	
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SECTION AT EL. 310'-0"

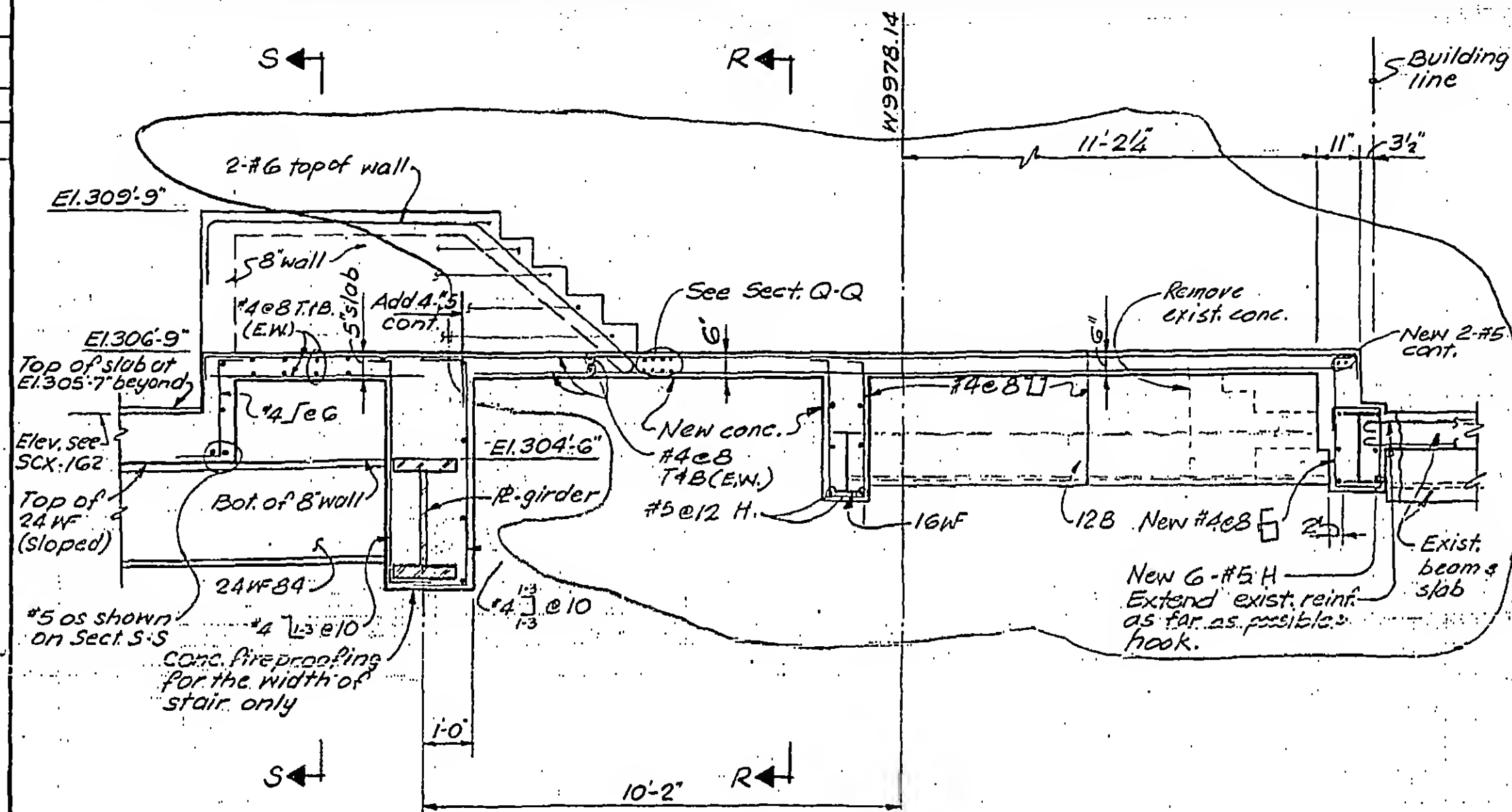
DATE 2-9-70

REVISIONS

6-12-72

G-22-72

6-15-73



SECTION P-P

$(38'' = 1'-0'')$



DESIGNED

DRAWN
S.C.

REVIEWED
E.L.

8-JK8-54.9

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTION AT EL. 310'-0"

DATE 2-9-70

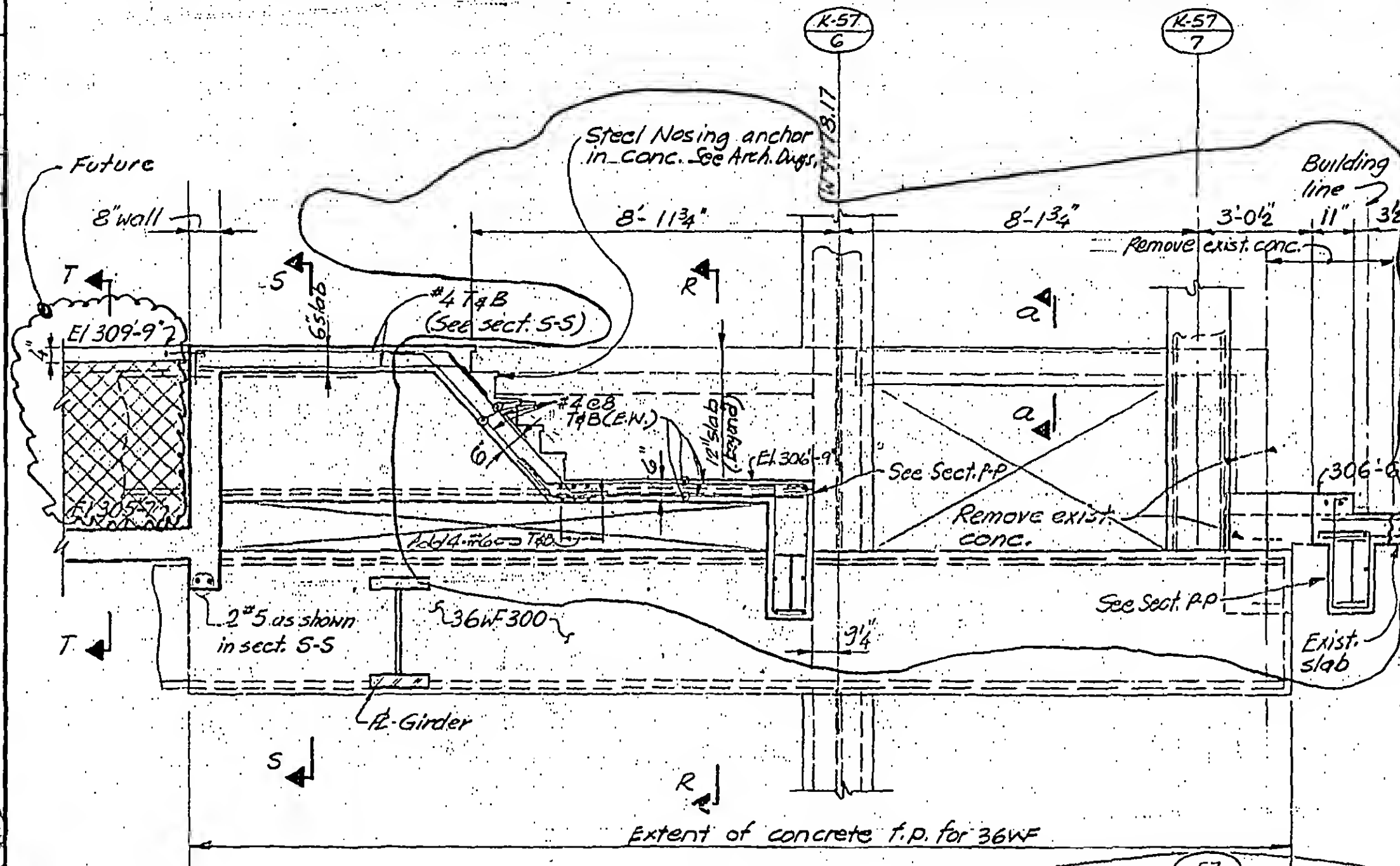
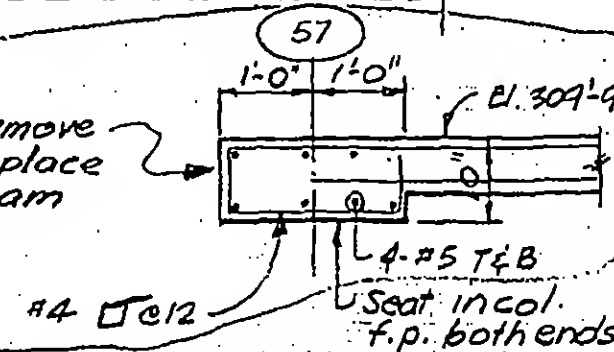
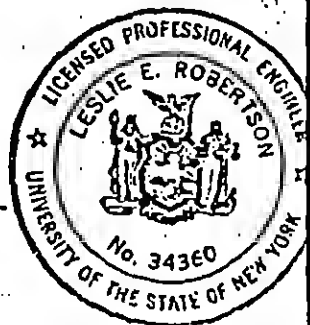
REVISIONS

4-3-70

6-12-72

6-22-72

6-15-73

SECTION Q-Q
(3'-8" = 1'-0")Note: Remove
exist. & place
new beamSection a-a
(1/2" = 1'-0")
8-JKB-54.10

DESIGNED

DRAWN
J. Gricius

REVIEWED

E.L.

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE

SECTIONS AT STAIR K-6A, EL 310

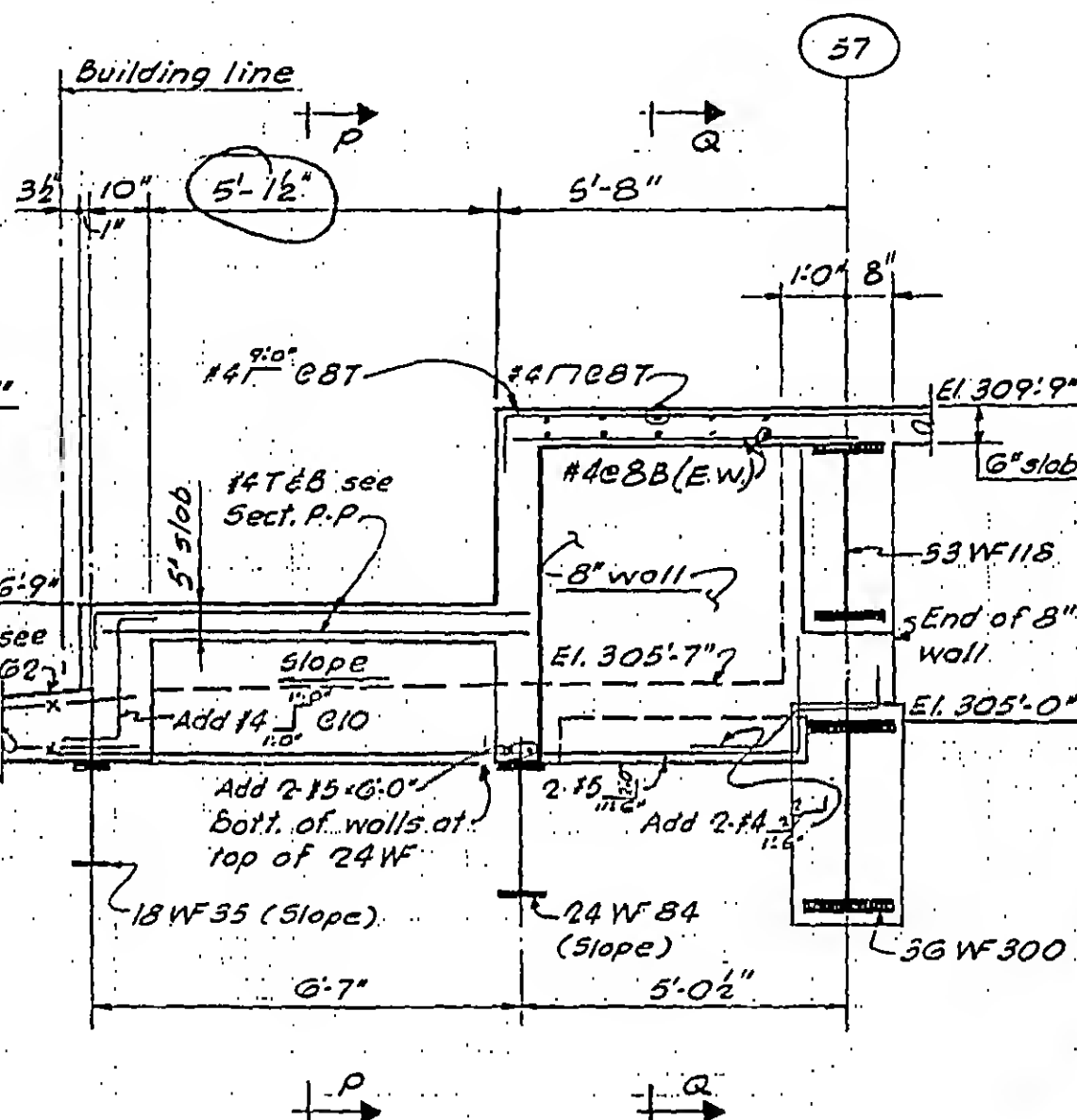
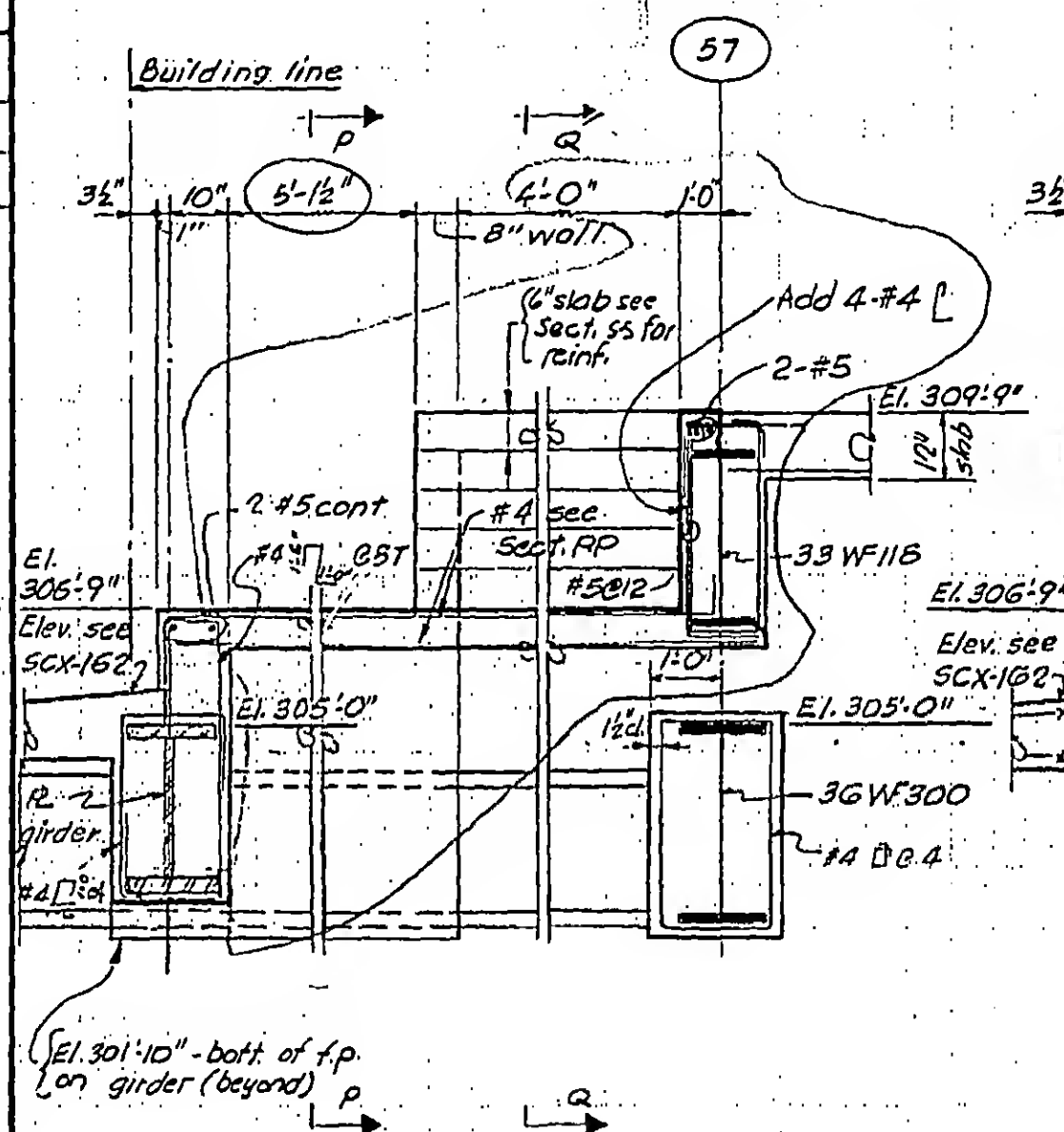
DATE 2-9-70

REVISIONS

6-12-72

6-22-72

6-15-73



DESIGNED

DRAWN

G.K.

REVIEWED

E.L.

8-JK8-54.11

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

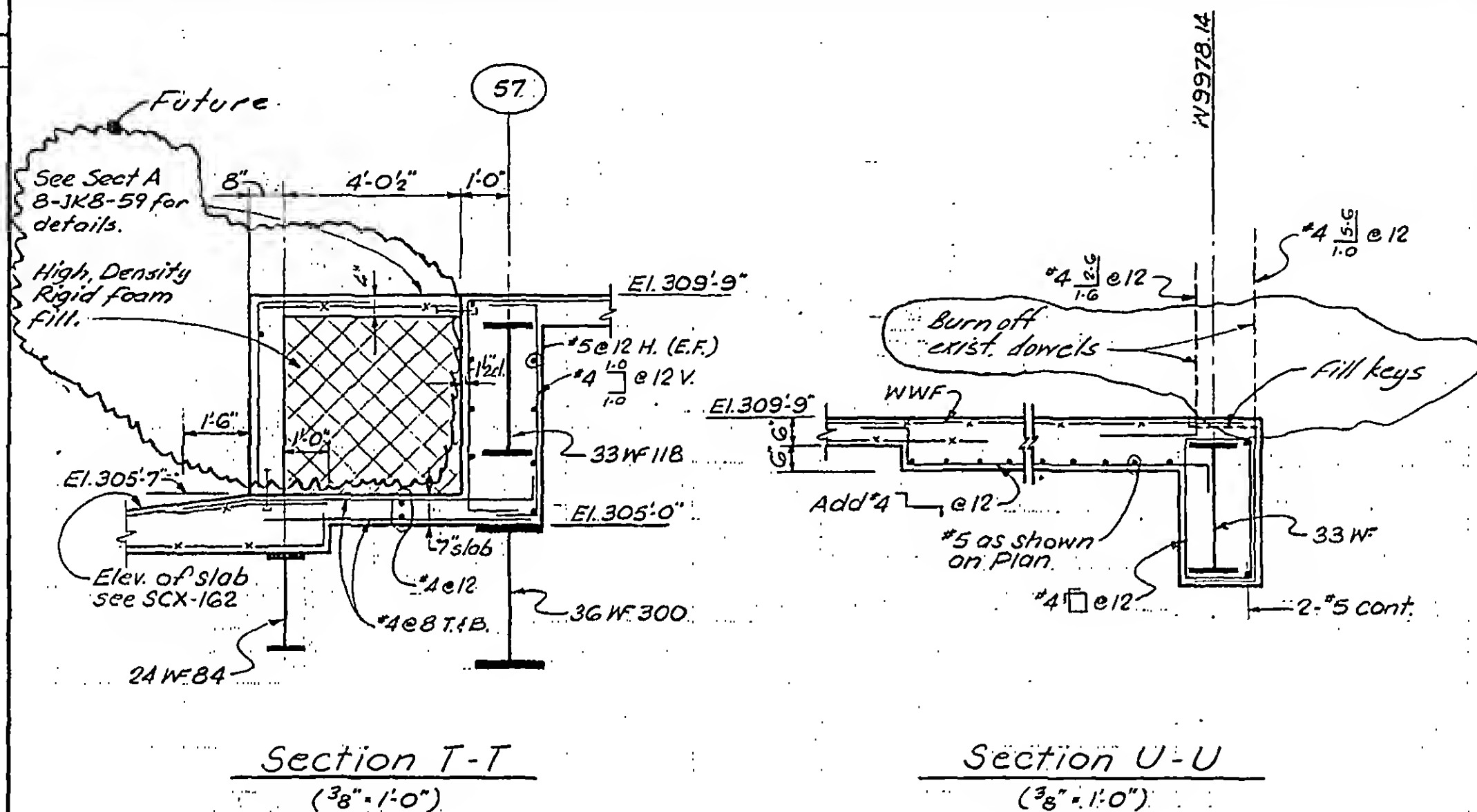
TITLE

SECTIONS AT EL. 310'-0"

DATE 2-9-70

REVISIONS

6-15-73



DESIGNED

DRAWN

SC.

REVIEWED

E.L.

8-JK8-54.12

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

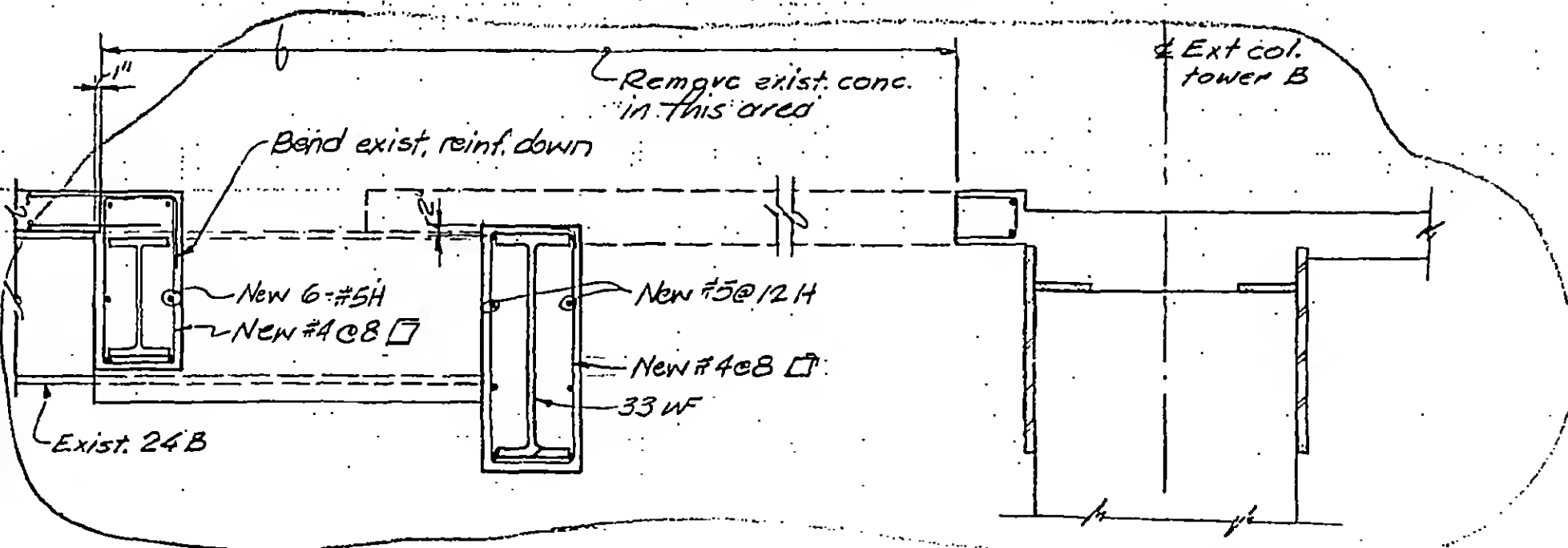
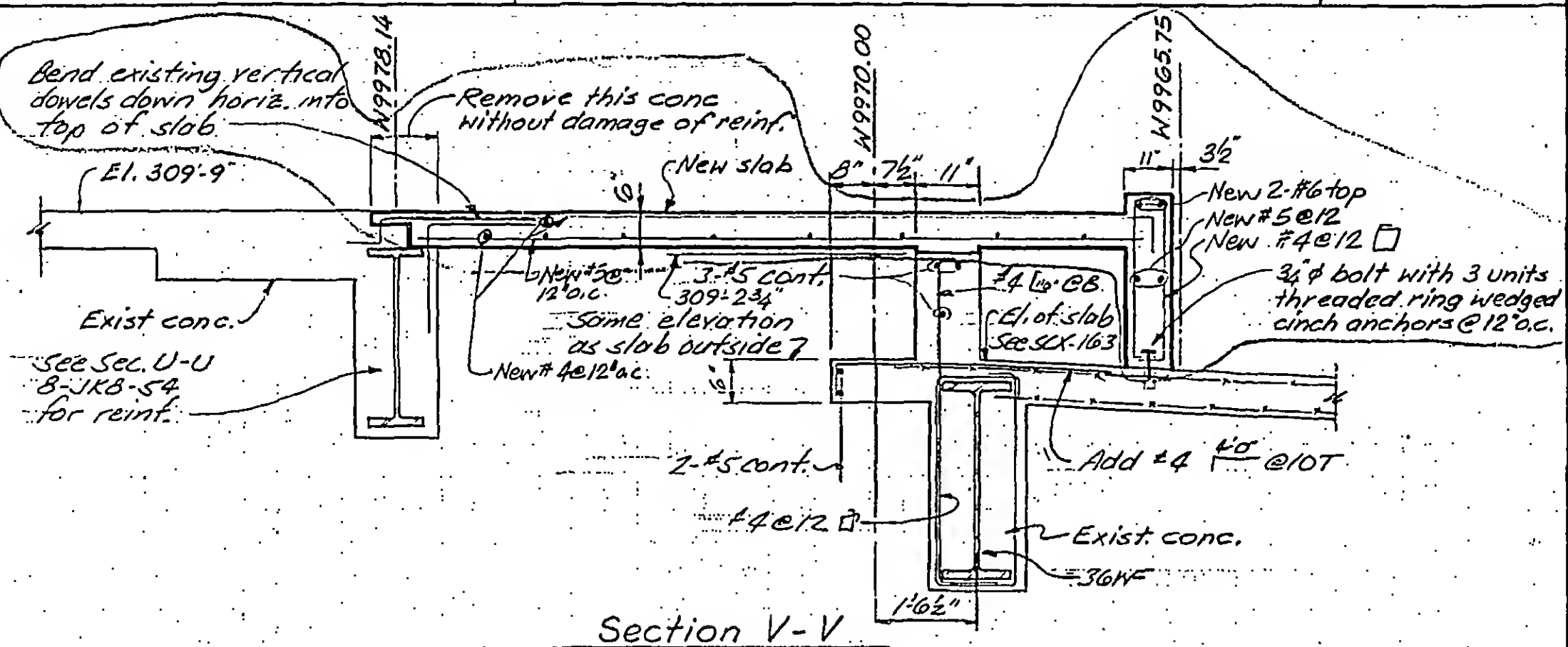
PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT EL. 310'-0"

DATE 2-9-70

REVISIONS

6-15-73



DESIGNED P.Y.

DRAWN J. Gricius

REVIEWED WAD

8-JKB-54.13

SKILLING, HELLE. CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

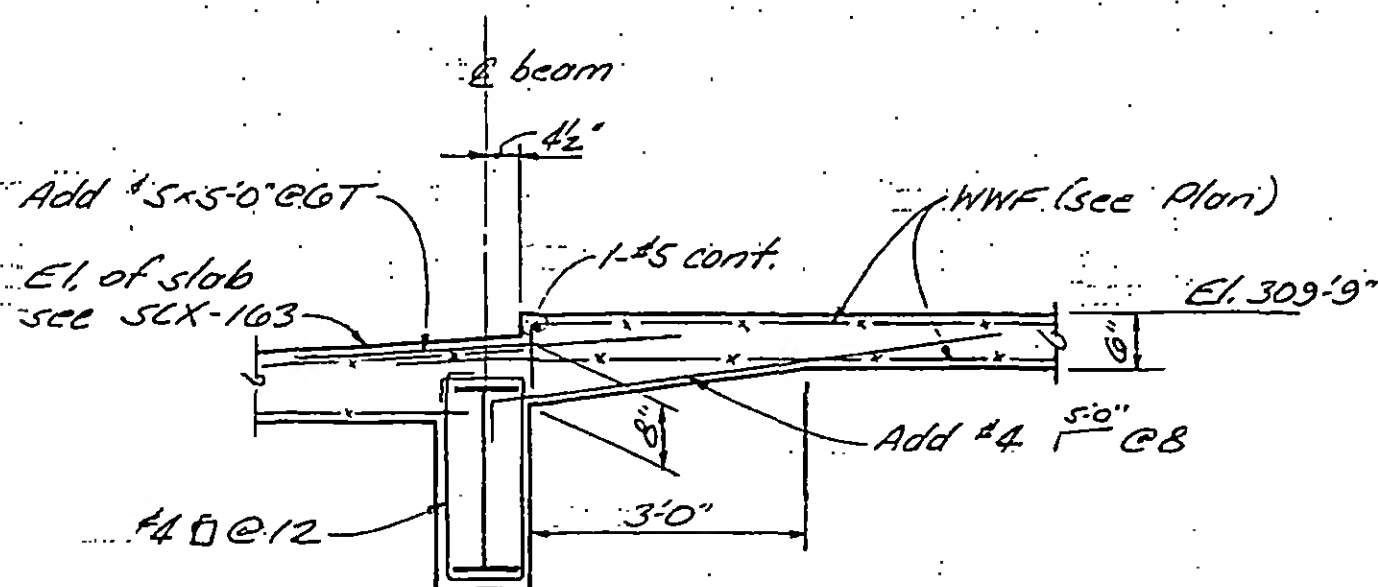
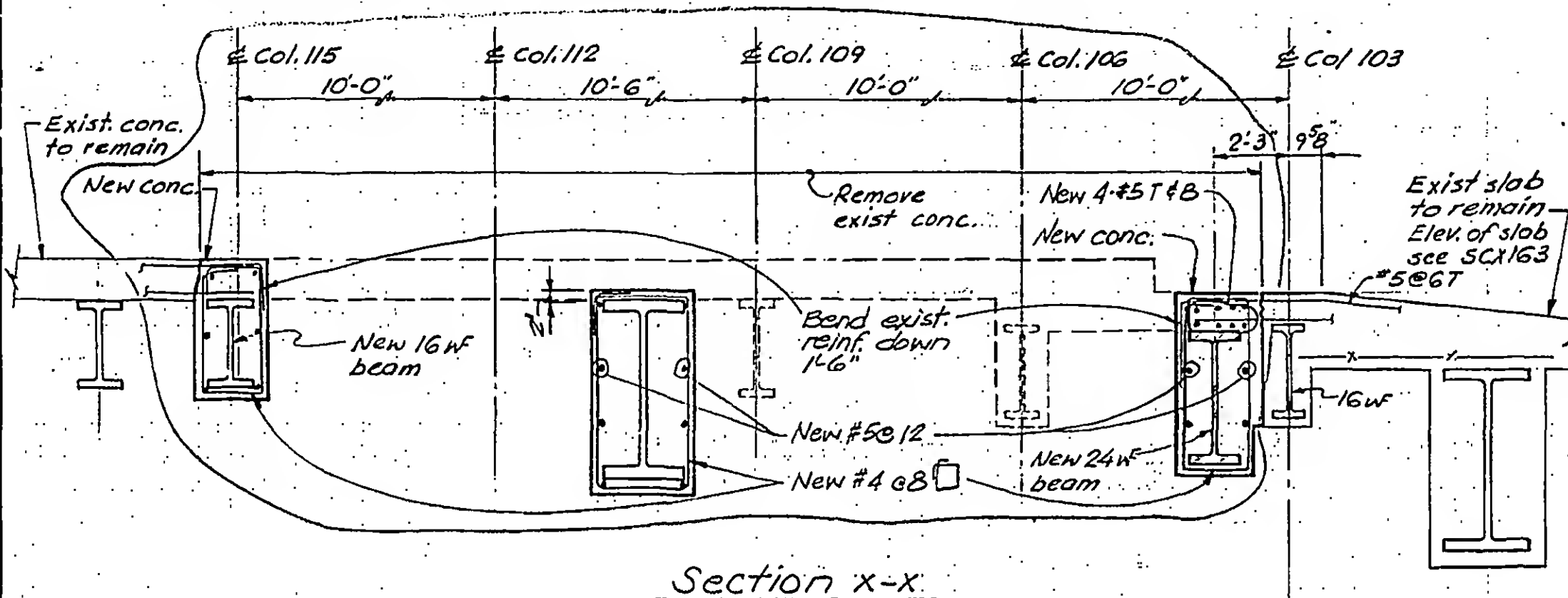
PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT E1 310

DATE 2-9-70

REVISIONS

6-15-73



DESIGNED

DRAWN

J. Gricius

REVIEWED

WAB

8-JK8-54.14

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

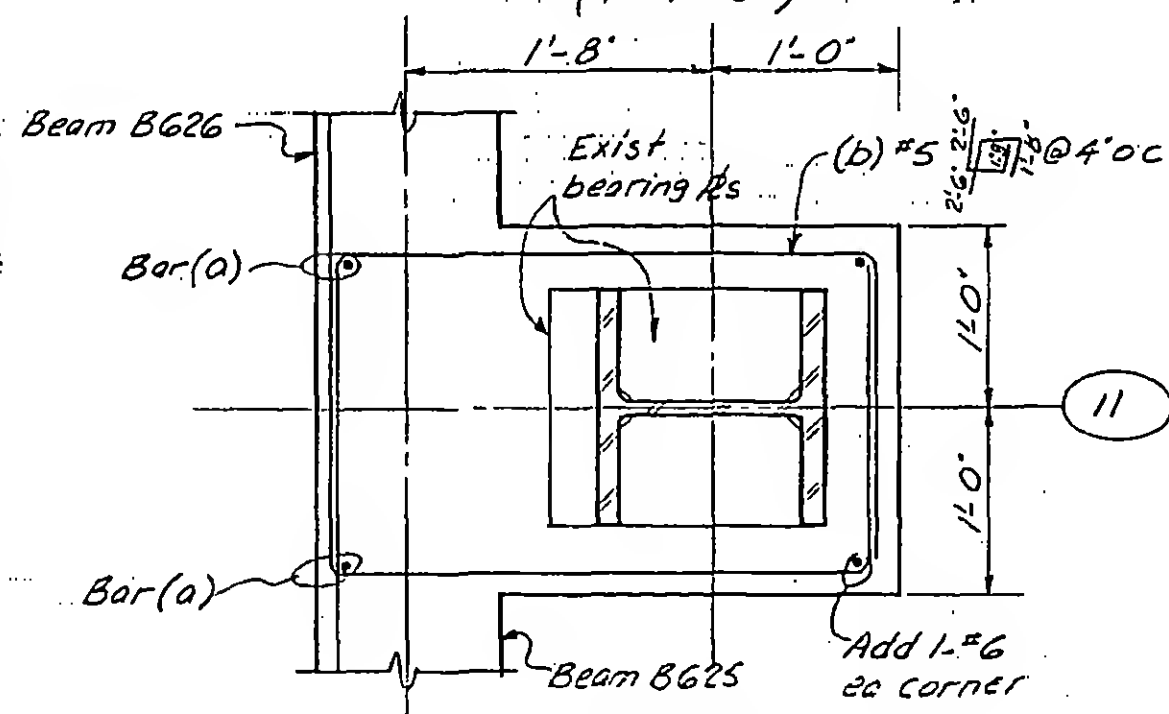
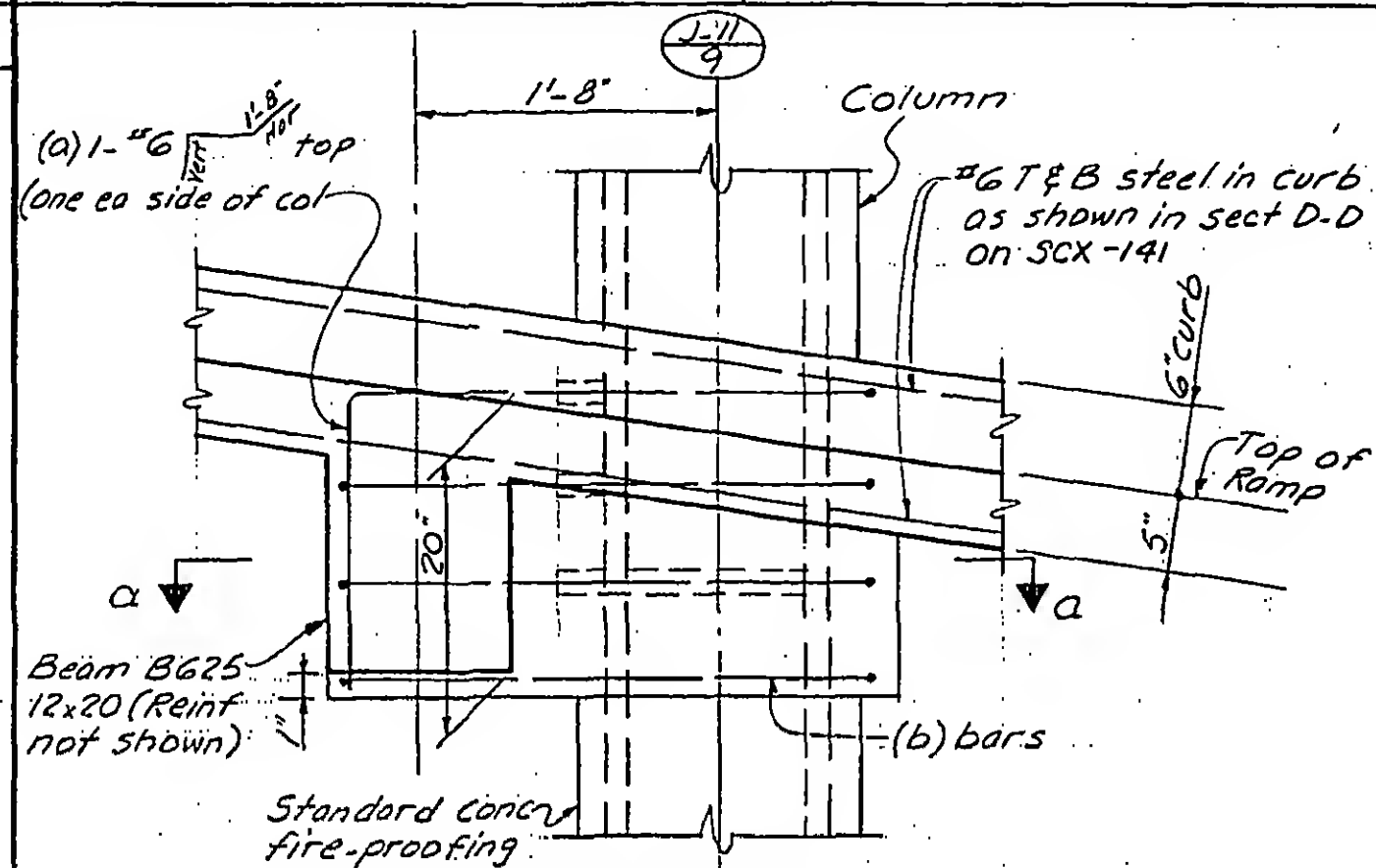
PROJECT THE WORLD TRADE CENTER

TITLE

SECTIONS AT EL. 279'-3"

DATE 7-18-69

REVISIONS



DESIGNED

DRAWN
A.L. FRANQUI

REVIEWED

E.L.

8-JK8-56.1

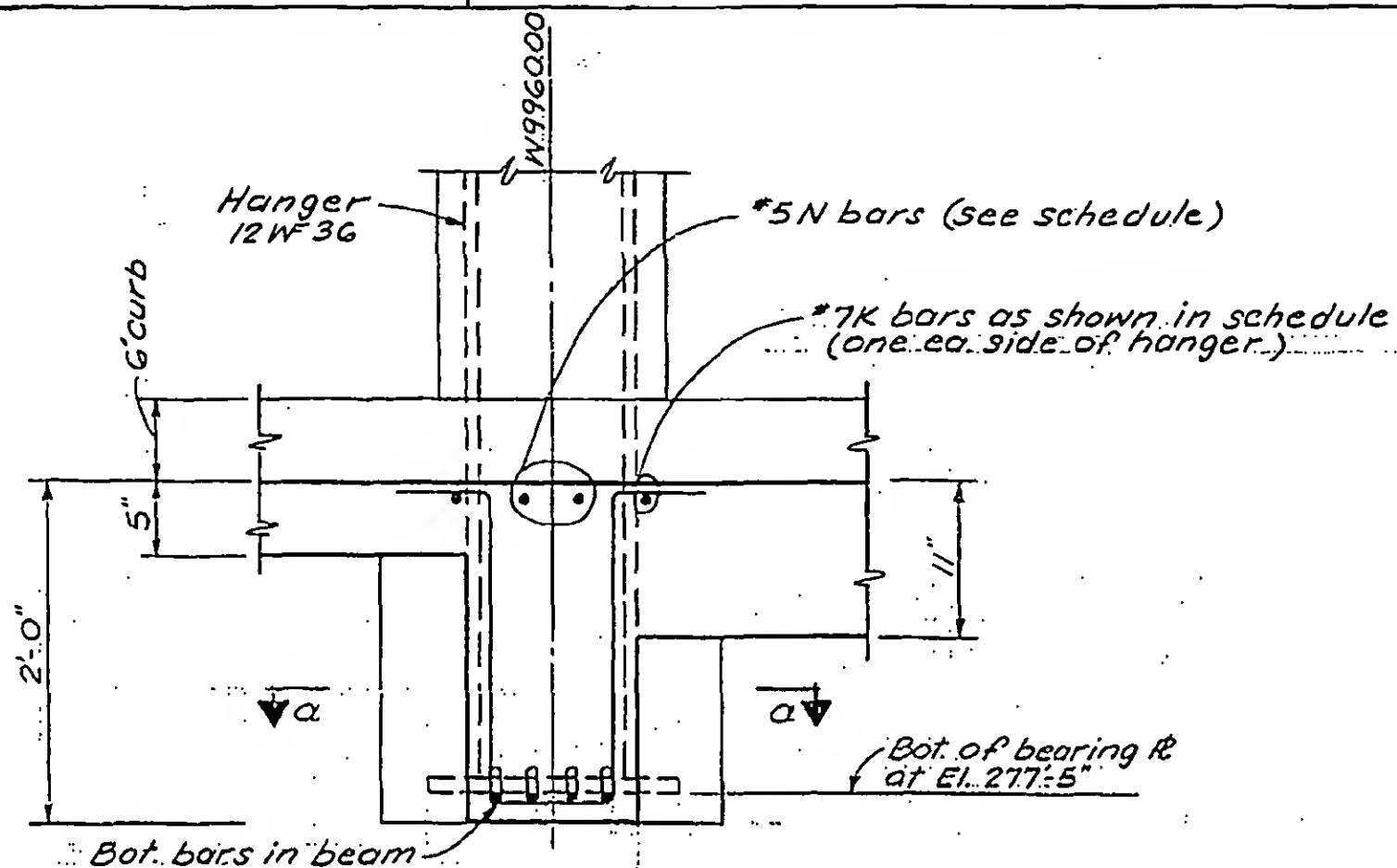
Structural & Civil Engineers

TITLE

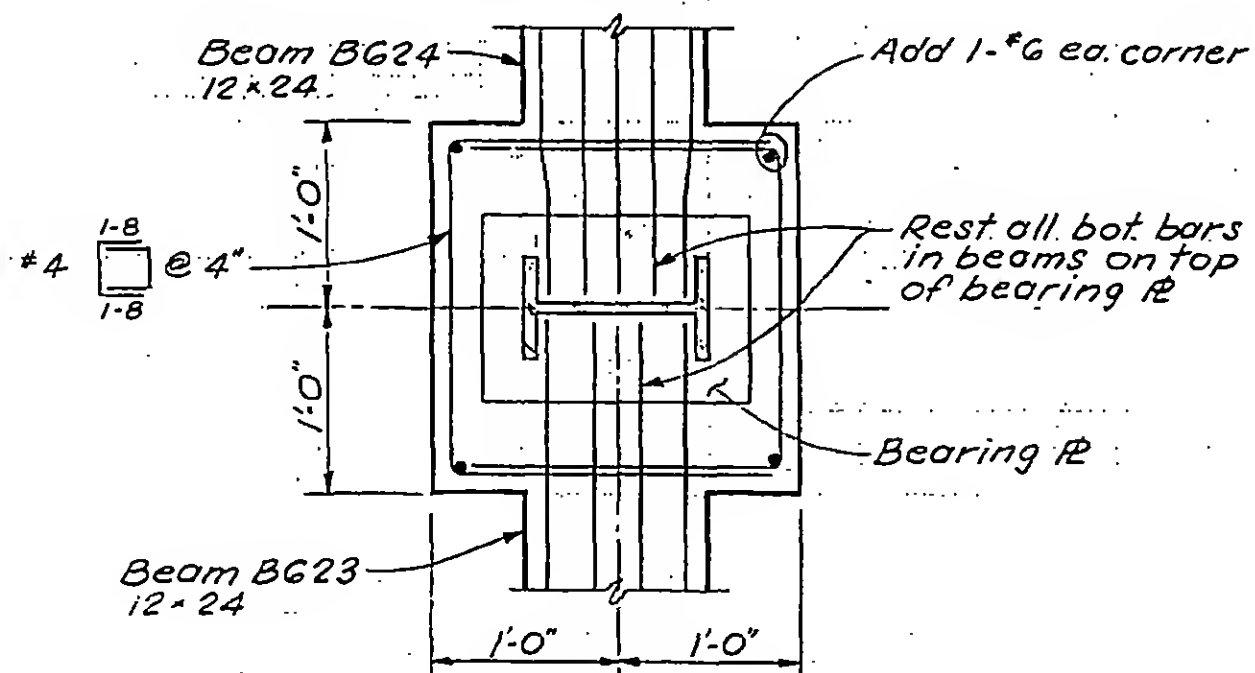
SECTION AT EL. 279'-3"

DATE 7-18-69

REVISIONS :



Section B-B

$$(I'' = I' - 0'')$$


Section a-a

$$(1'' = 1'-0'')$$


DECEMBER 1997

DRAWN
S.C.

REVIEWED
E.L.

8-JK-8-56.2

PROJECT WORLD TRADE CENTER

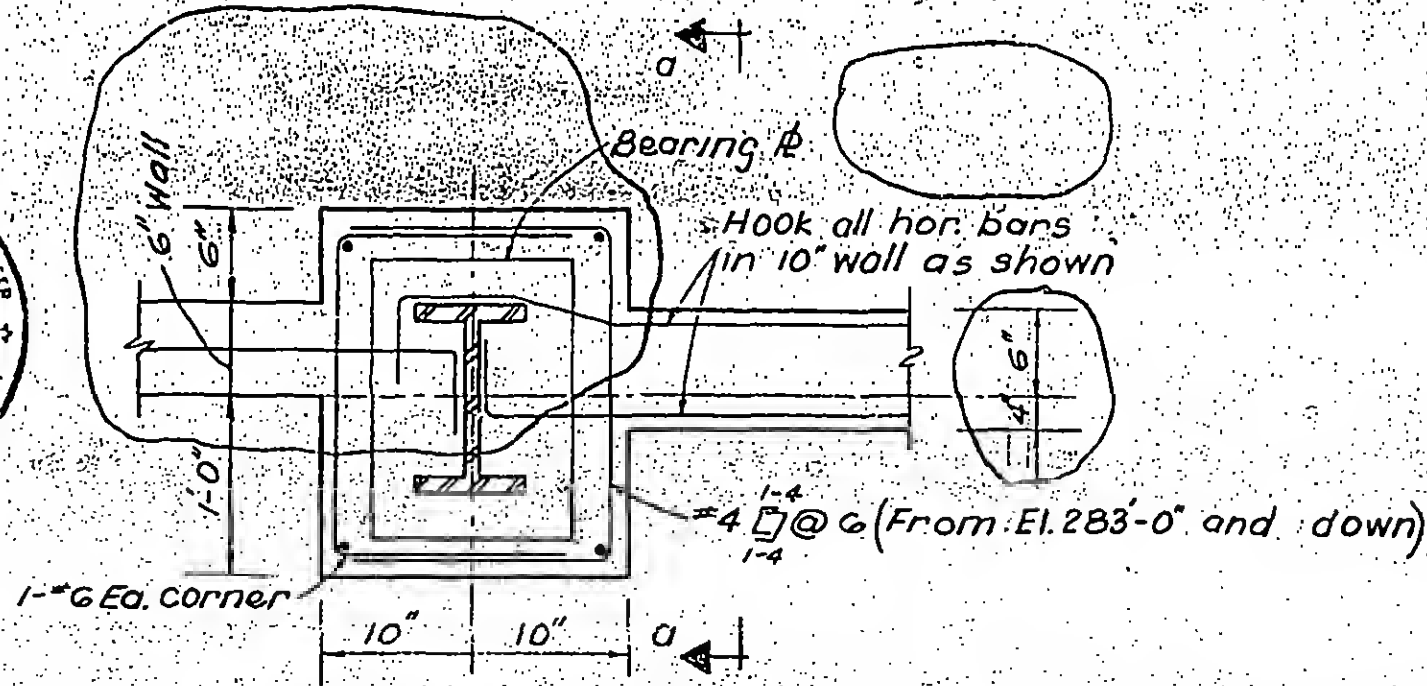
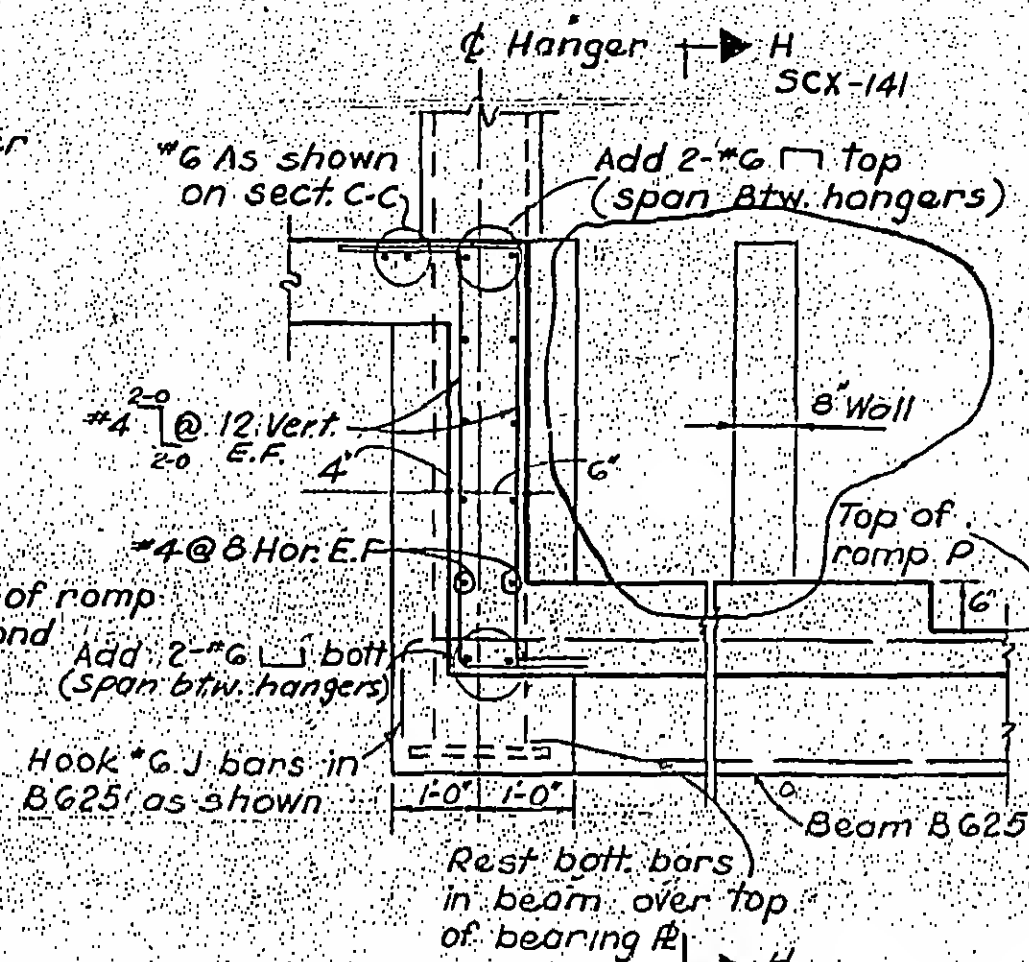
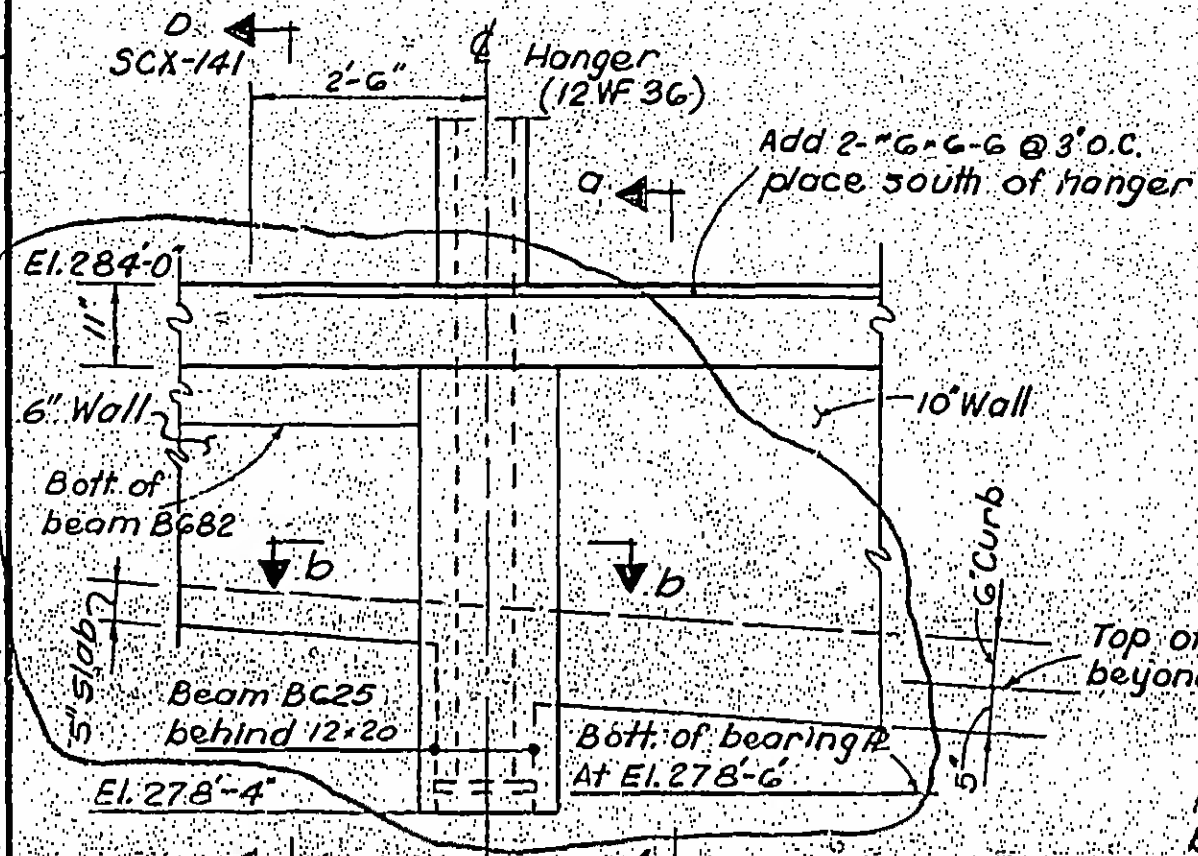
TITLE SECTIONS AT EL. 279'-3"

DATE 7-18-69

REVISIONS

12-30-69

3-6-70



DRAWN

D.U.

REVIEWED

E.L.

8-JK8-56.3

Structural & Civil Engineers

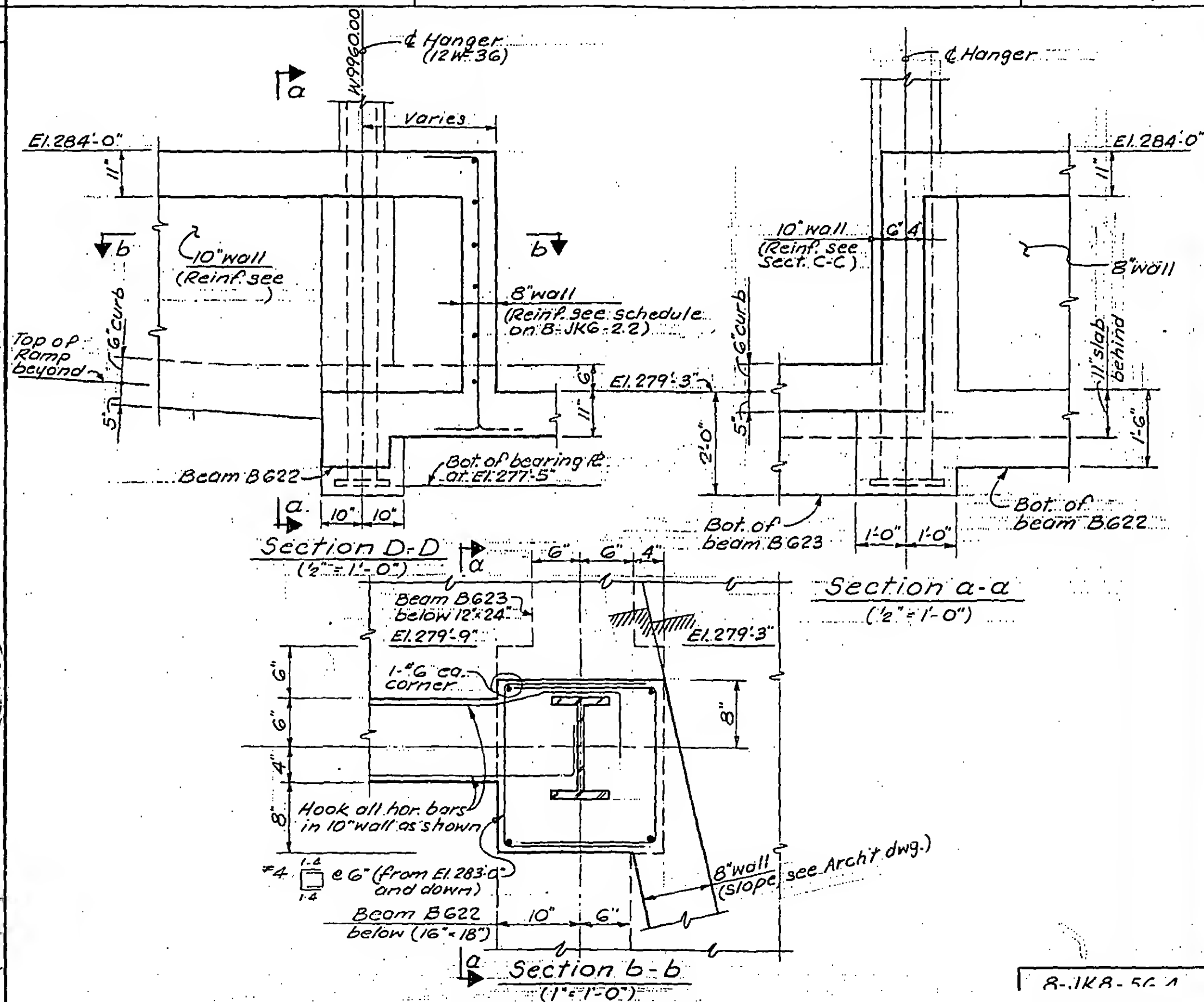
PROJECT *THE WORLD TRADE CENTER*

TITLE

SECTIONS AT EL. 279'-3"

DATE 7-18-69

REVISIONS



DESIGNED

DRAWN

REVIEWED

S. C.

E.L.

8-1K8-5C 1

SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

Structural & Civil Engineers

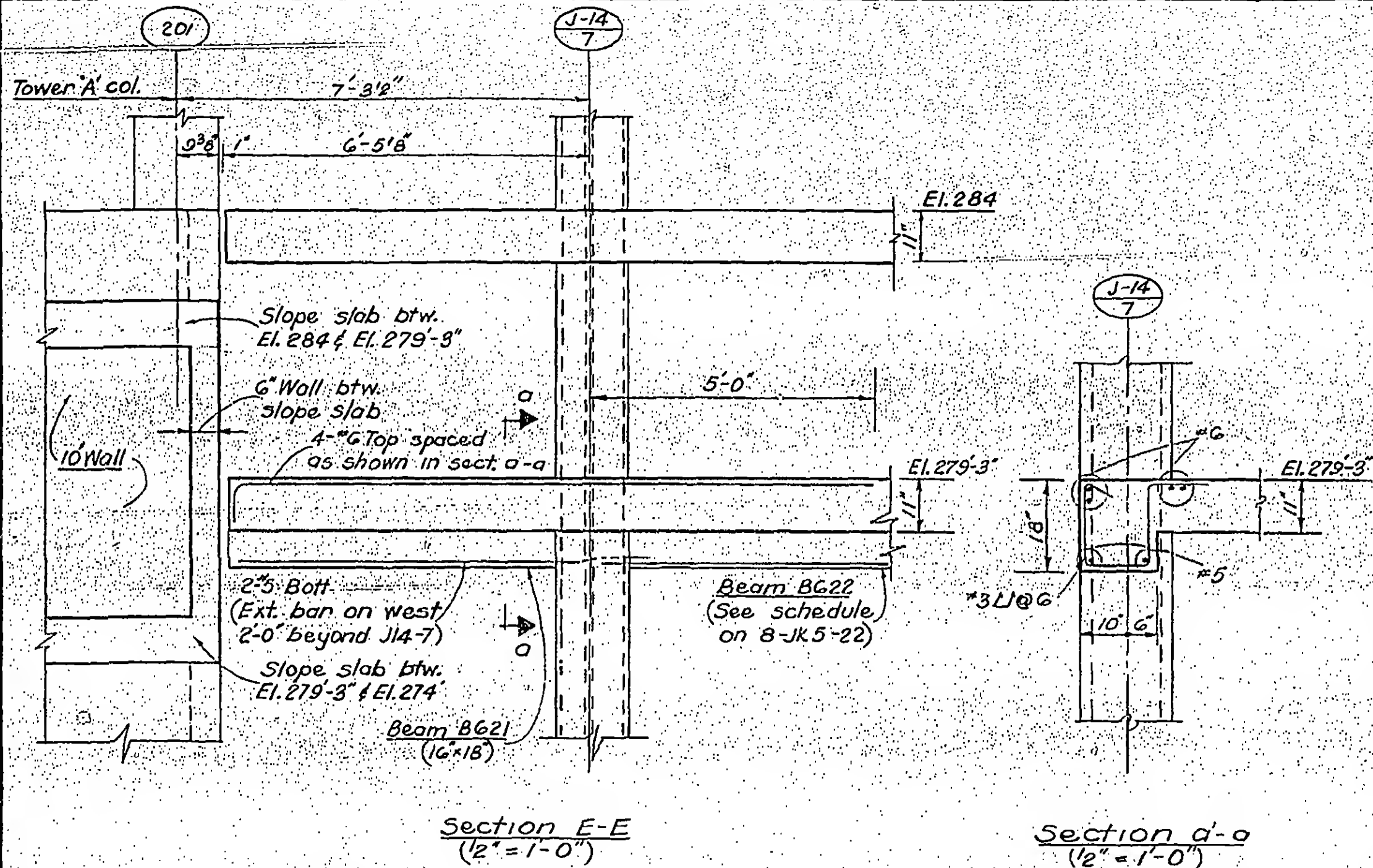
PROJECT WORLD TRADE CENTER

TITLE

SECTION AT EL. 279'-3"

DATE 7-18-69

REVISIONS

DRAWN
D.U.REVIEWED
E.L.

8-JK8-56.5

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

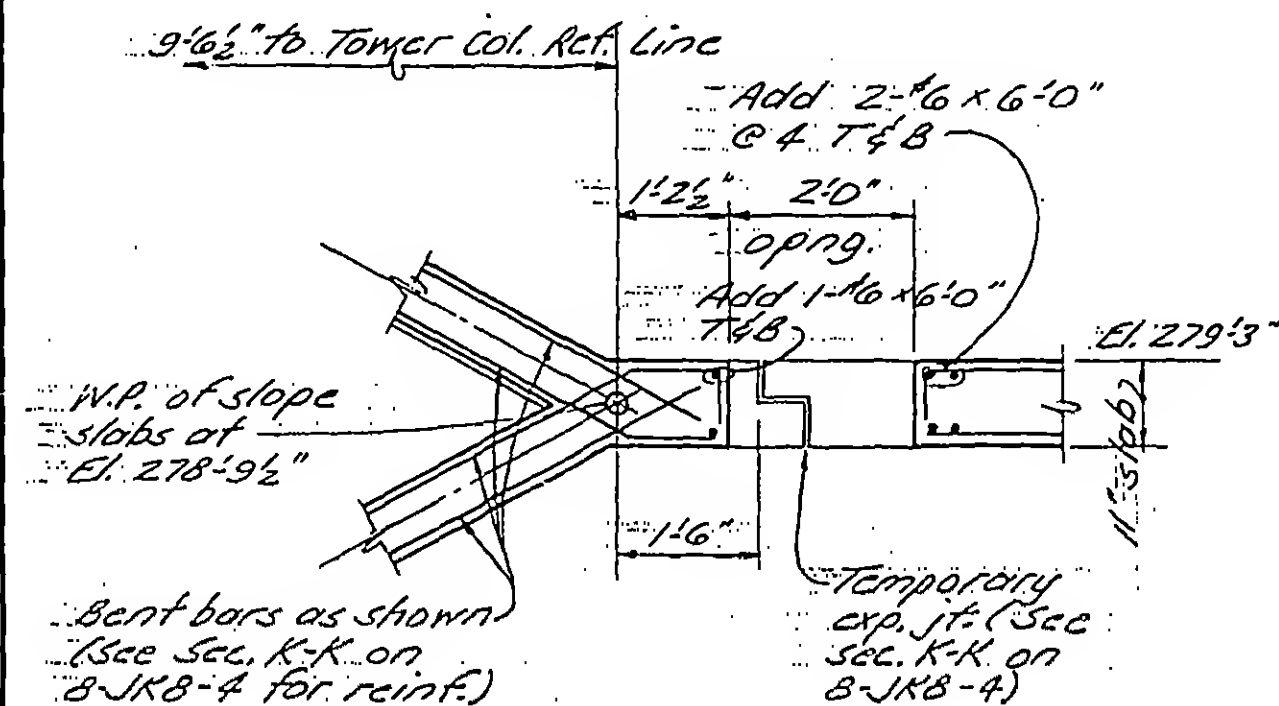
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

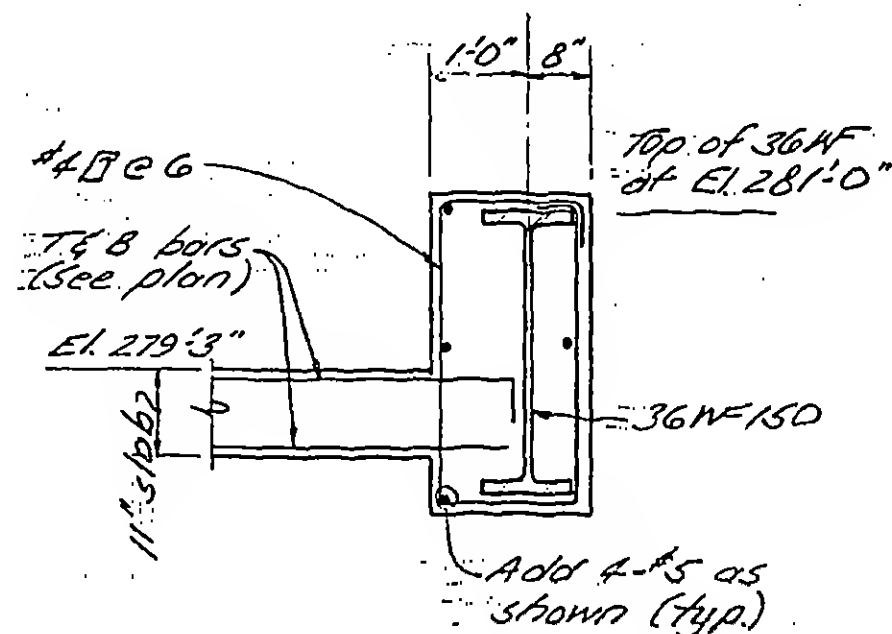
TITLE SECTIONS AT EL. 279'-3"

DATE 9-23-69

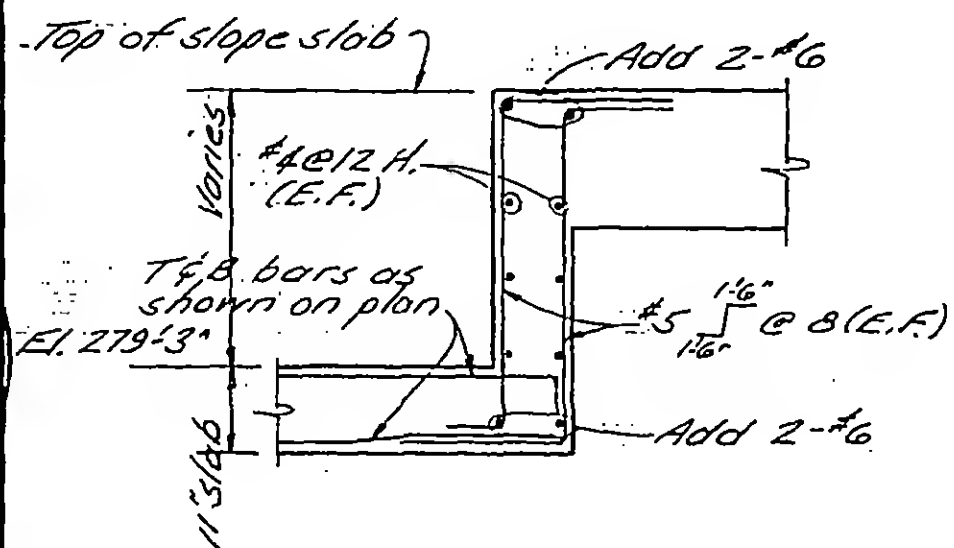
REVISIONS



Section F-F
(1/2" = 1'-0")



Section G-G
(1/2" = 1'-0")



Section H-H
(1/2" = 1'-0")



DESIGNED

DRAWN
J. Adams

REVIEWED

E.L.

8-JK8-56.6

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

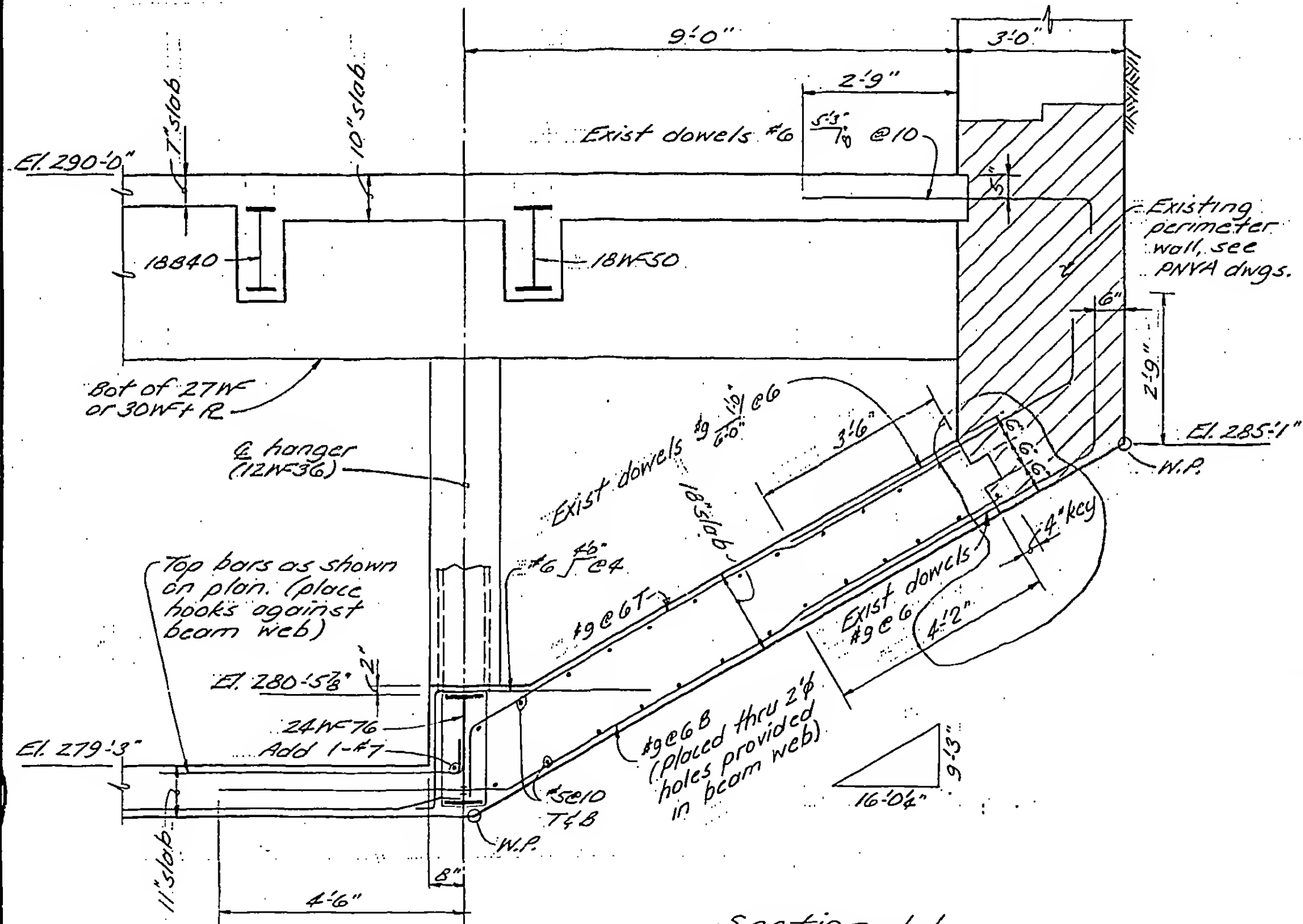
PROJECT THE WORLD TRADE CENTER

TITLE SECTION AT EL 279'-3"

DATE 9-23-69

REVISIONS

10-30-69

Section J-J
(1/2" = 1'-0")

DESIGNED

DRAWN

J. Adams

REVIEWED

E.L.

8-JKB-56.7

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

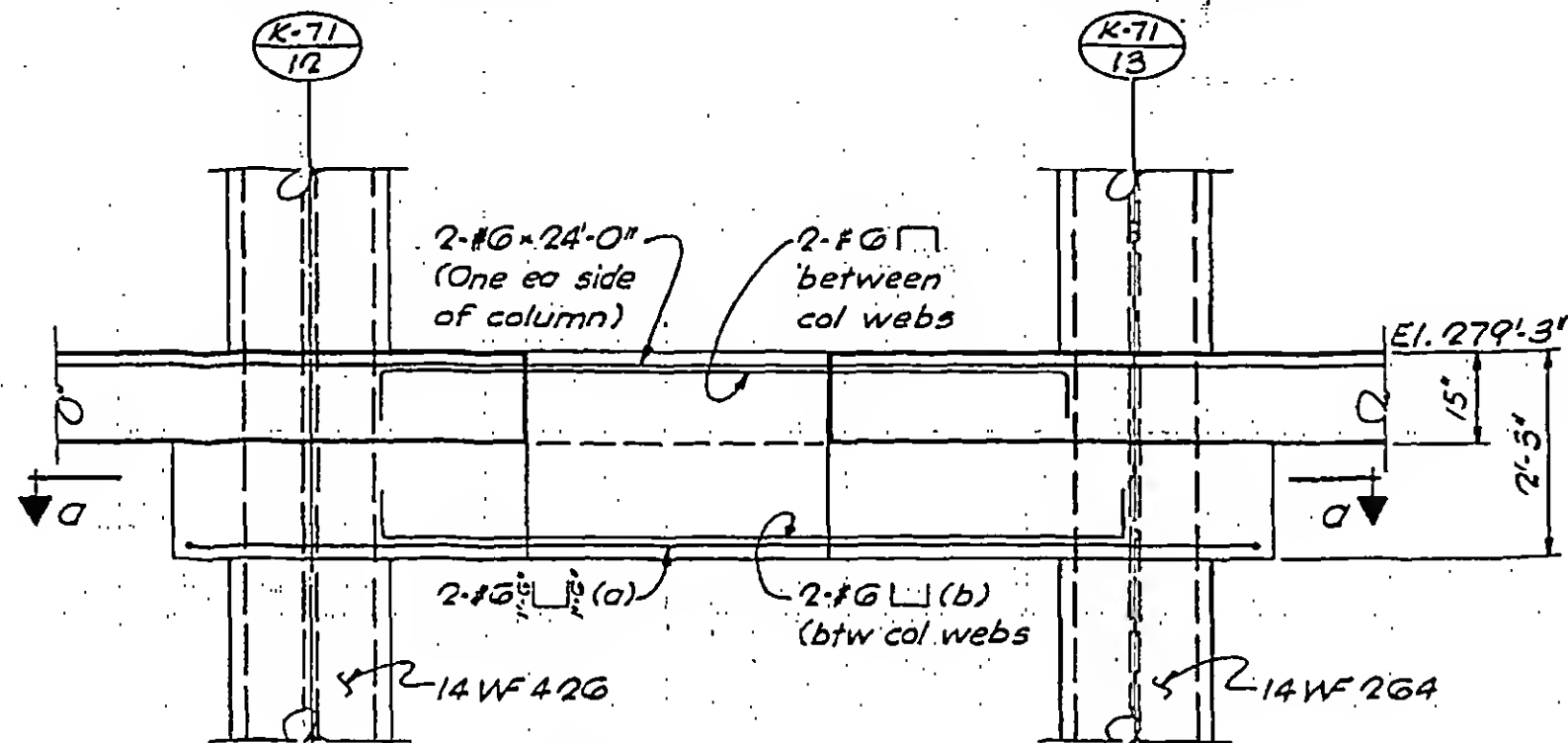
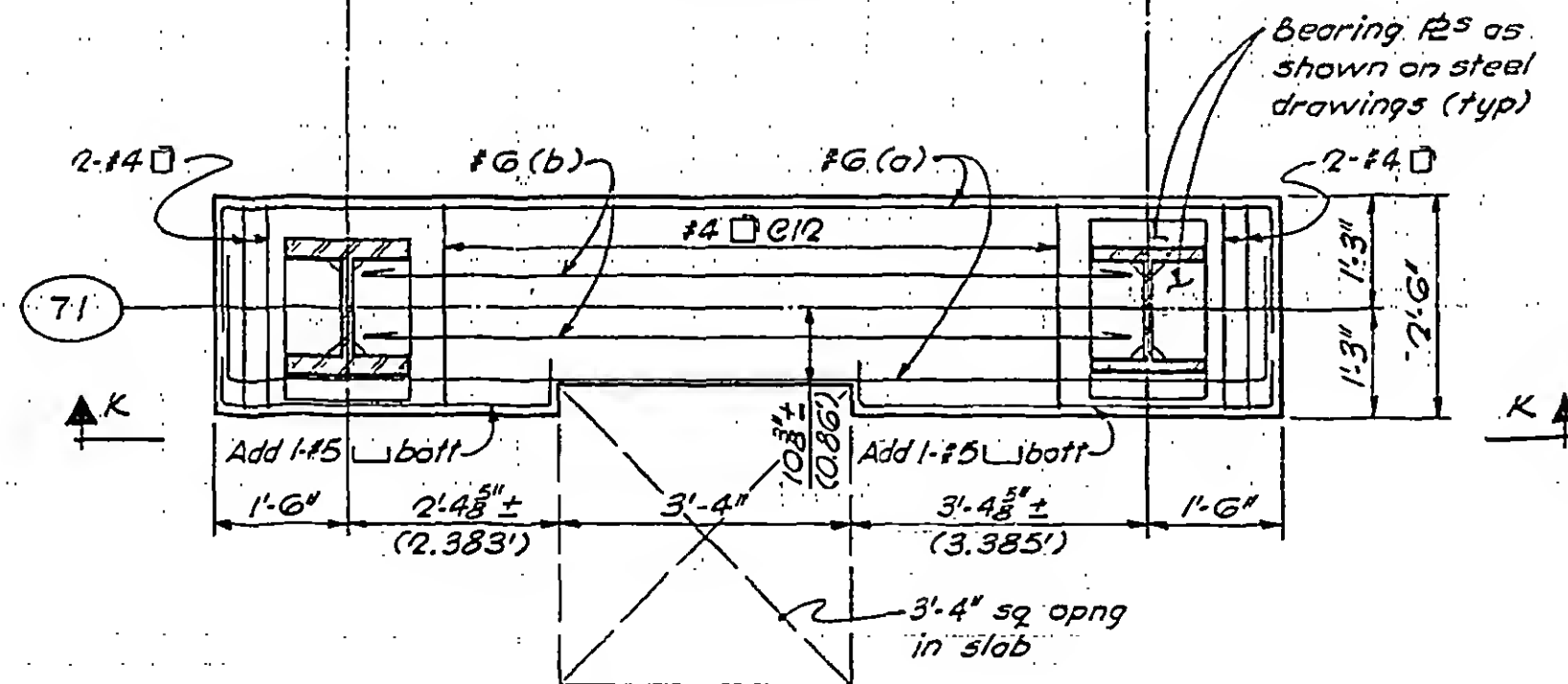
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTION AT EL. 279'-3"

DATE 11-25-69

REVISIONS

SECTION K-K
(1/2" = 1'-0")SECTION A-A
(1/2" = 1'-0")

DESIGNED

DRAWN

G.K.

REVIEWED

E.L.

8-JKB-56.8

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

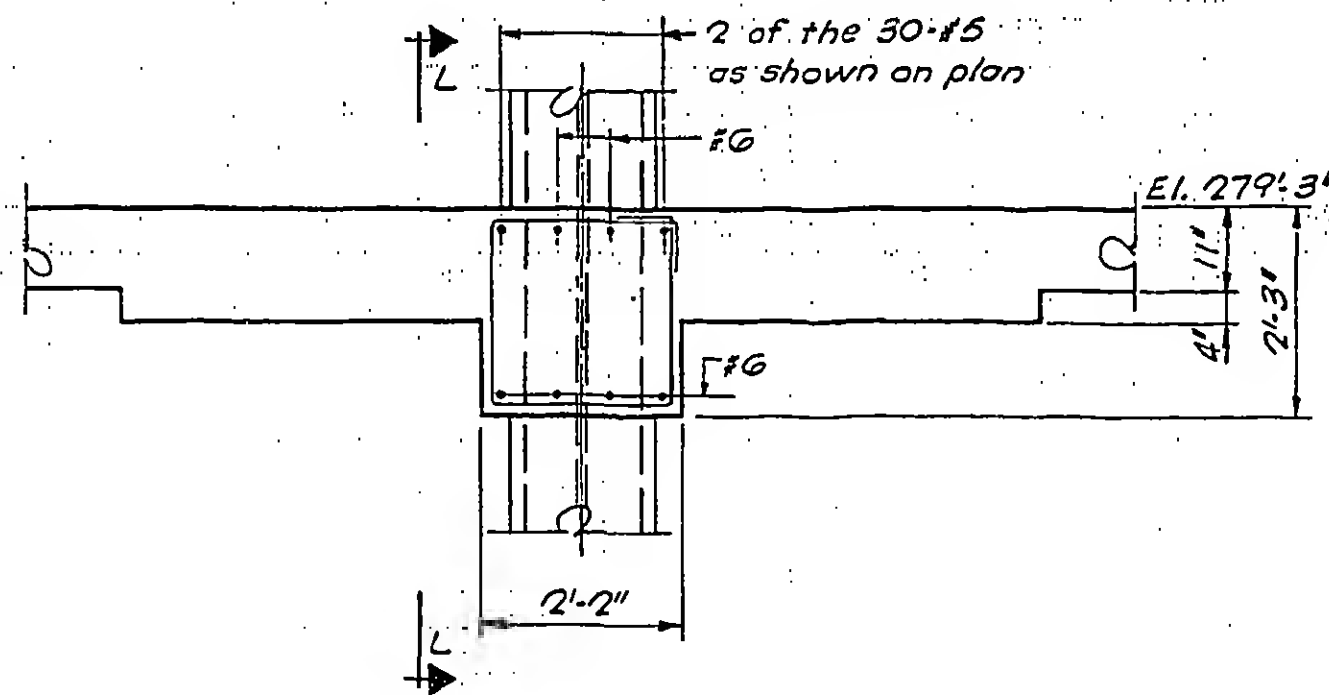
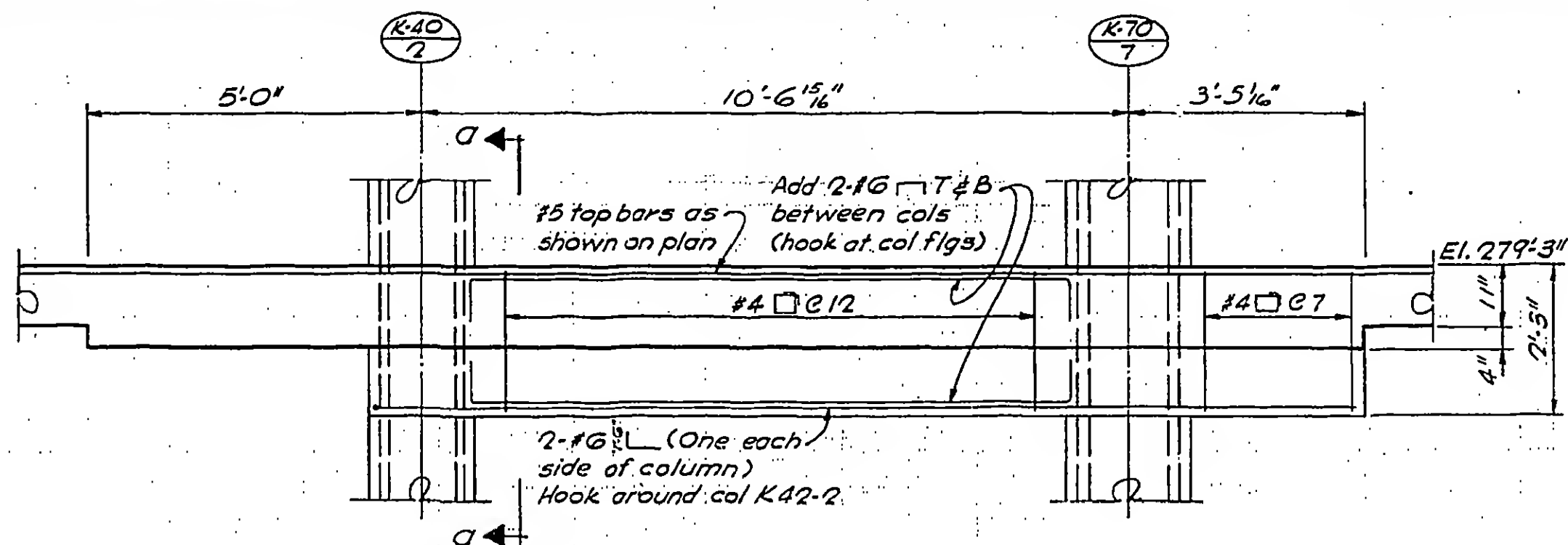
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTION AT EL. 279'-3"

DATE 11-25-69

REVISIONS



DESIGNED

DRAWN
G.K.REVIEWED
E.L.

8-JK8-56.9

SKILLING HELLE CHRISTIANSEN ROBERTSON

SI

PROJECT

THE WORLD TRADE CENTER

TITLE

SECTION

REVISIONS

E1.330'-11³/₄'

E1.330'-4¹/₂'

2'-10"

E1.328'-1³/₄'

Tower col
ref-line

3'-6"

2-#6 cont
(min lap=2'-3")

#4 @ 8"

4'-0"

Face of
Tower col

SECTION A-A
(1/2"=1'-0")



DESIGNED

DRAWN

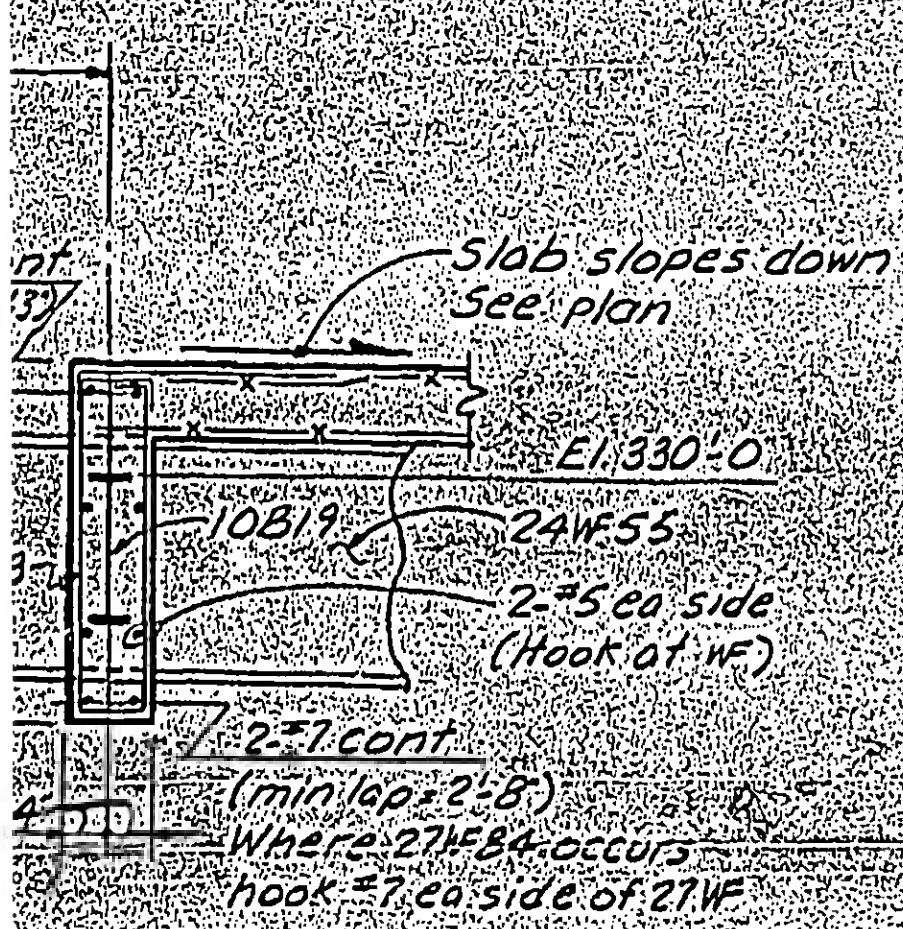
A.F.

REVIEWED

Structural & Civil Engineers

SECTION AT EL 332'-0"

DATE 5-1-70



of
col

IN A-A

0')

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

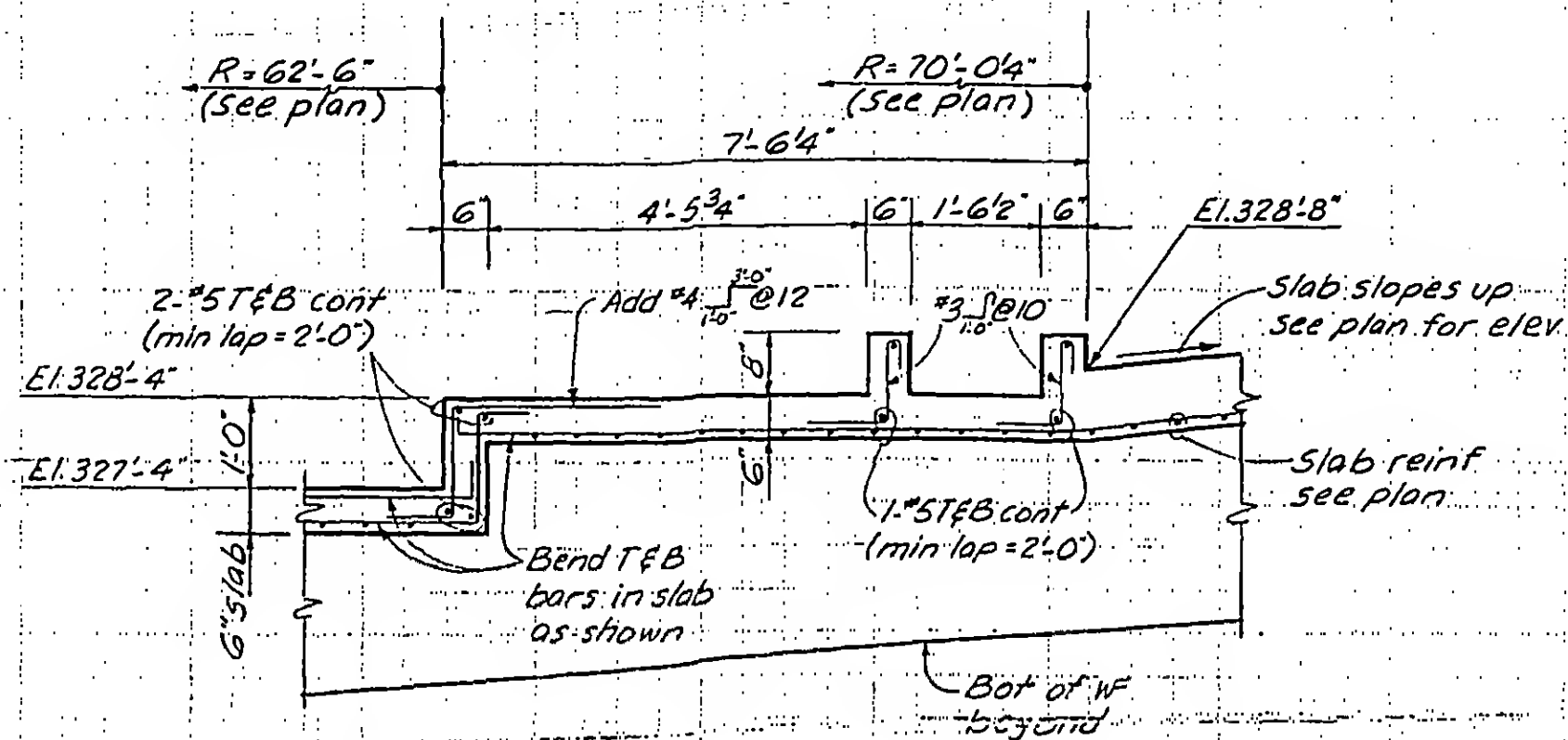
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTION AT EL. 332'-0"

DATE 5-1-70

REVISIONS



SECTION B-B
(1/2" = 1'-0")



DESIGNED

DRAWN
A.F.REVIEWED
E.L.

8-JKB-57.2

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

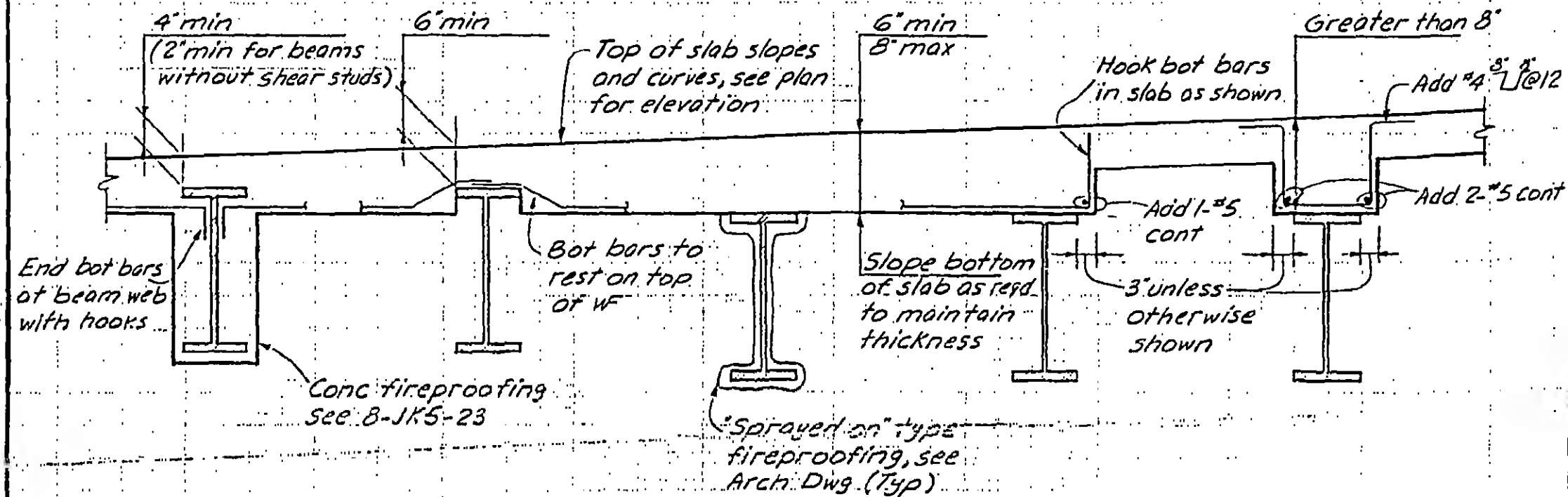
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

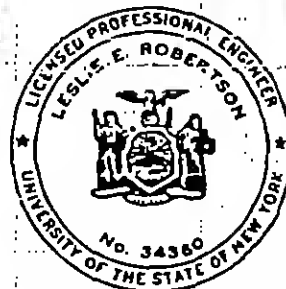
TITLE SECTION AT EL. 332'-0"

DATE 5-1-70

REVISIONS



SECTION C-C
(No scale)



DESIGNED

DRAWN
A.F.REVIEWED
E.L.

B-JK8-57.3

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

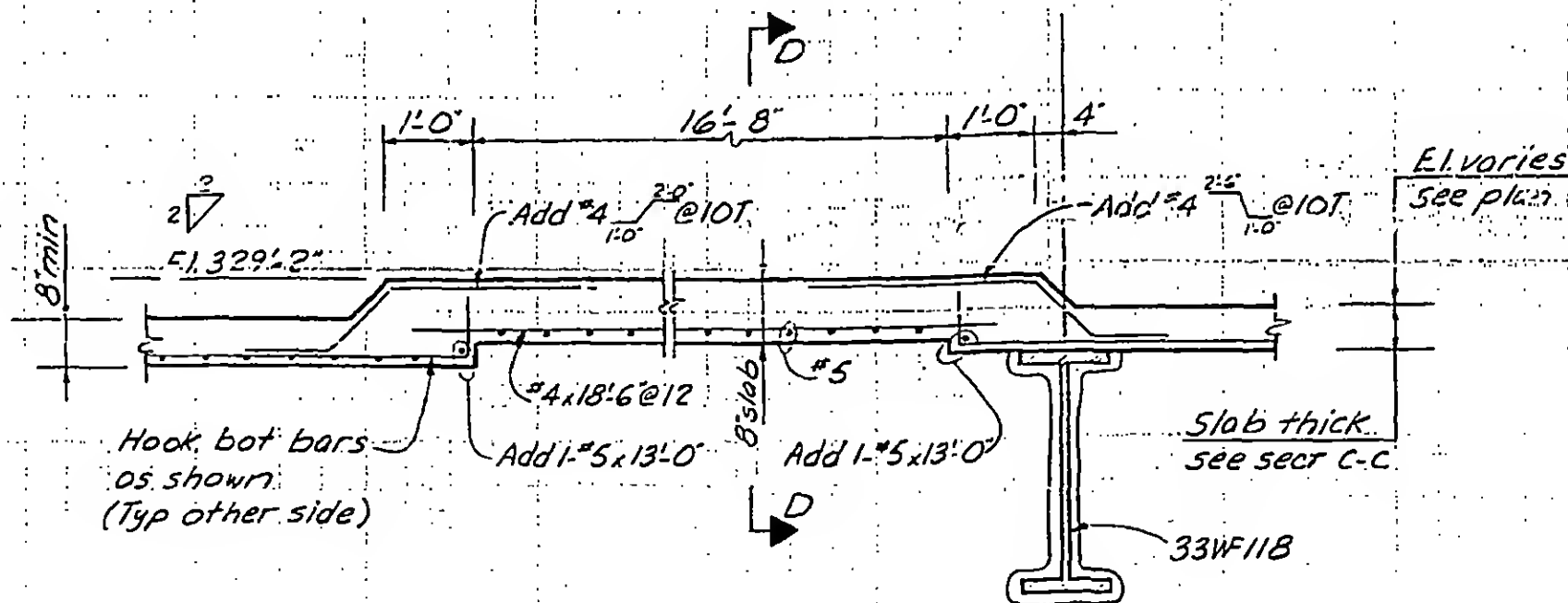
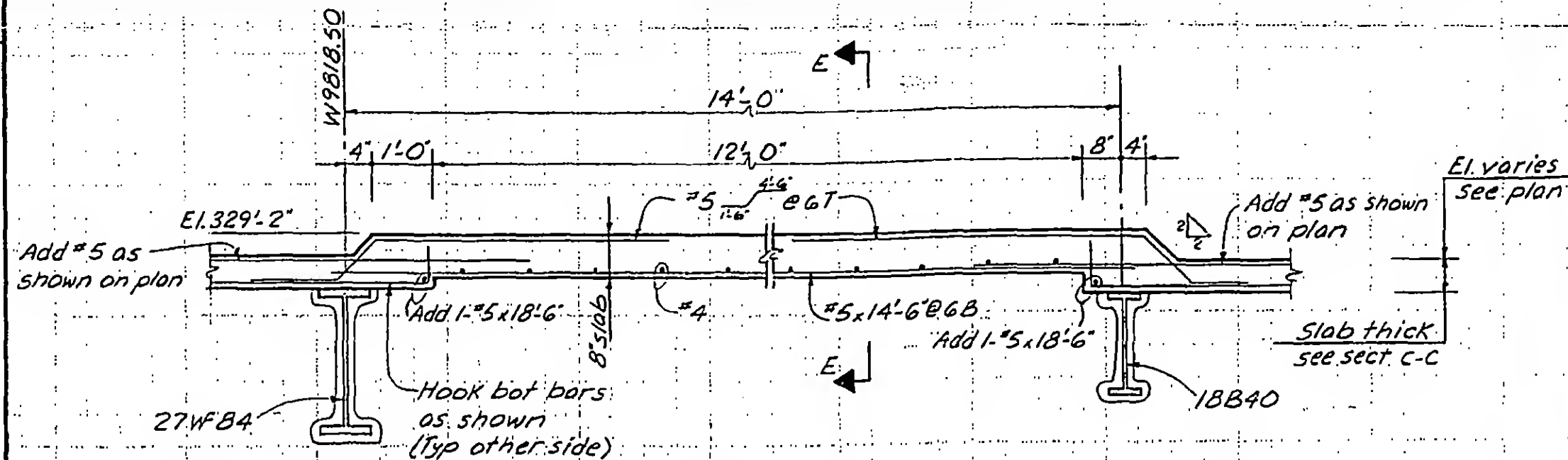
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTION AT EL. 332'-0"

DATE 5-1-70

REVISIONS



DESIGNED

DRAWN

A.F.

REVIEWED

E.L.

8-JK8-57.4

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

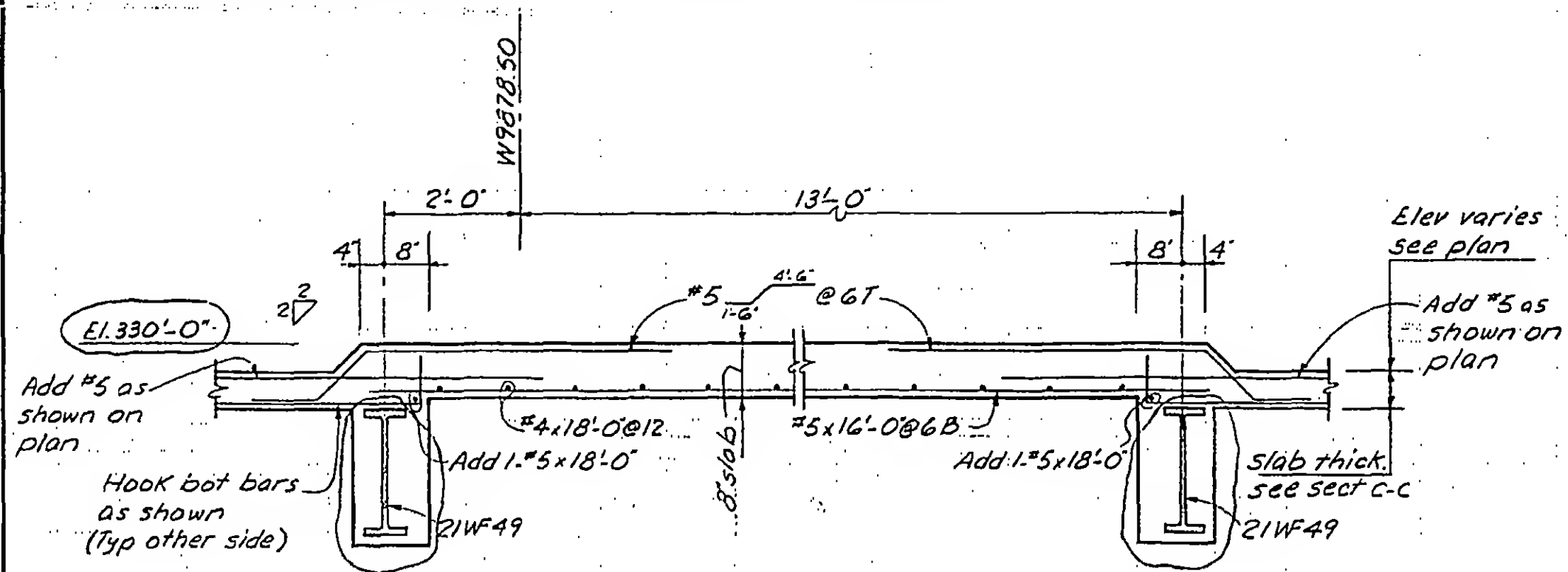
PROJECT THE WORLD TRADE CENTER

TITLE SECTION AT EL. 332'-0"

DATE 5-1-70

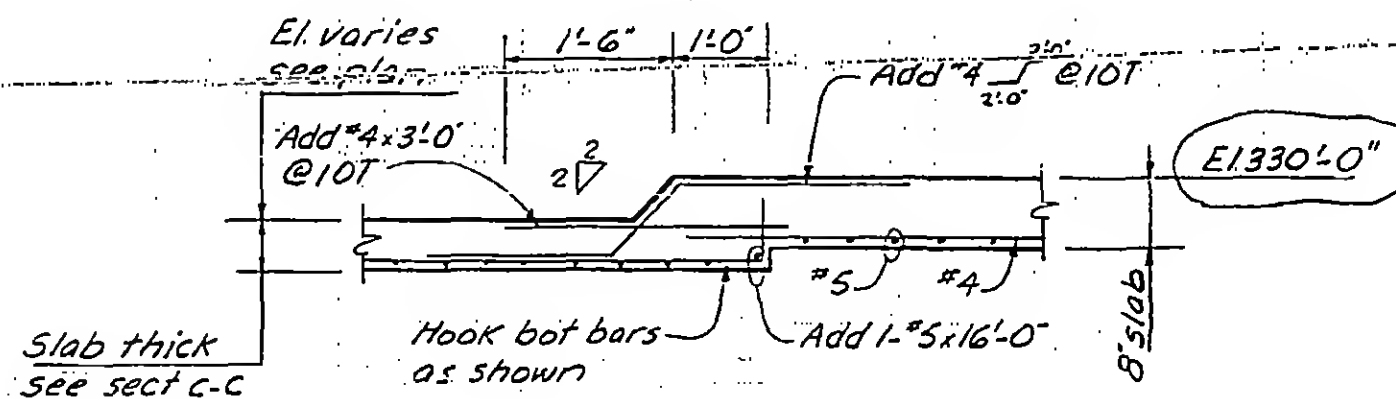
REVISIONS

5-15-70



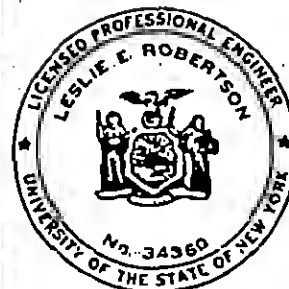
SECTION F-F

(1/2" = 1'-0")



SECTION G-G

(1/2" = 1'-0")



DESIGNED

DRAWN

A.F.

REVIEWED

E.L.

8-1K8-575

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

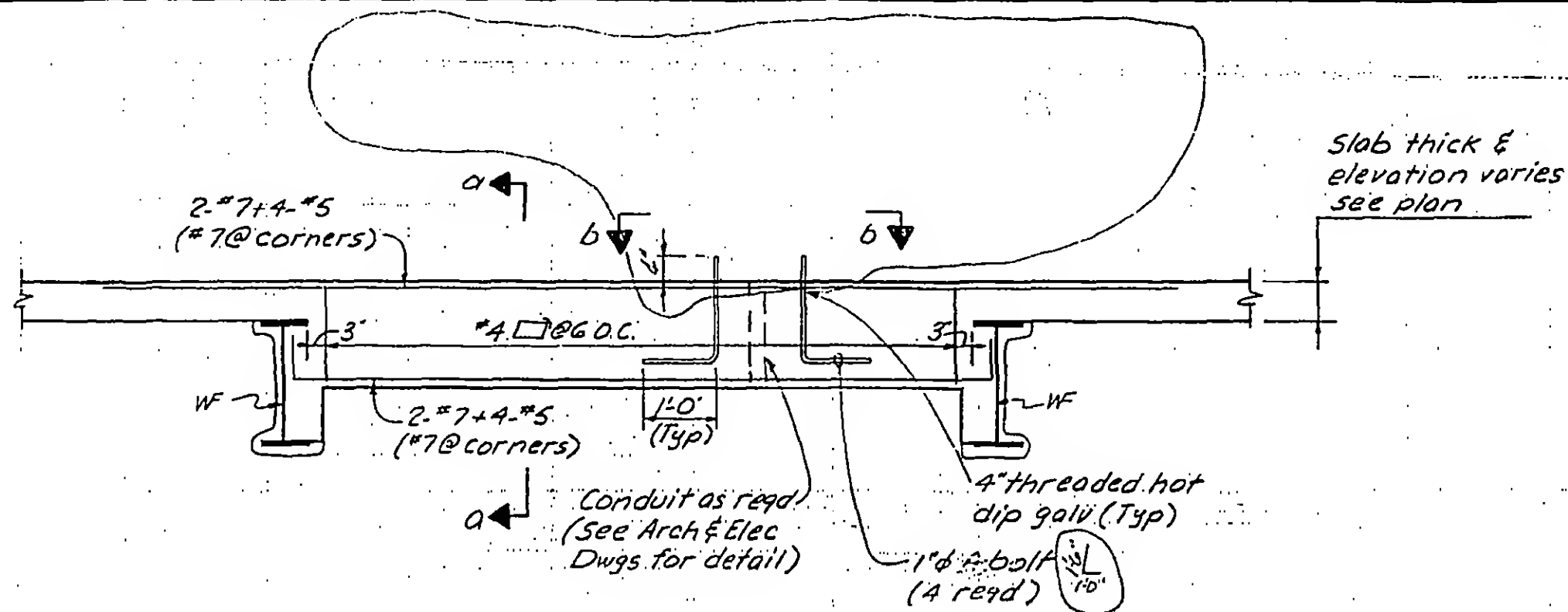
PROJECT THE WORLD TRADE CENTER

TITLE SECTION AT EL 332'-0"

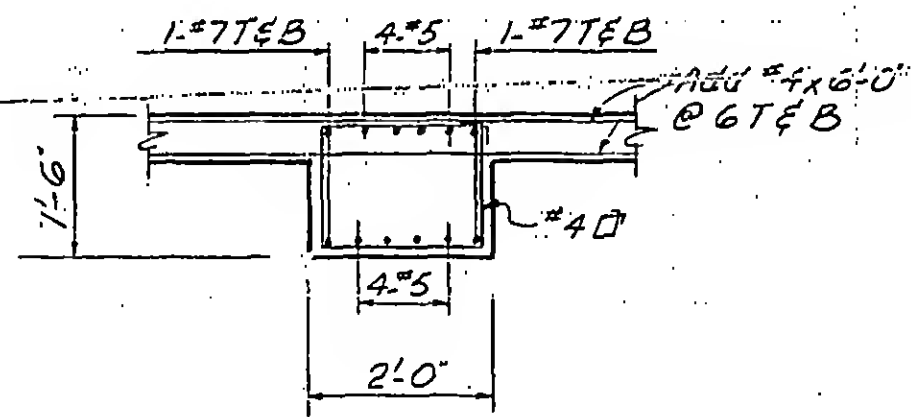
DATE 5-1-70

REVISIONS

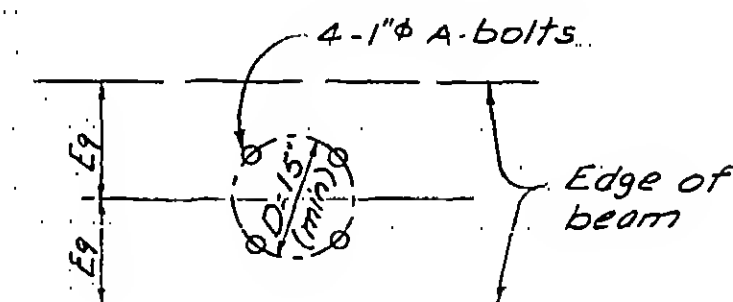
3-9-71



SECTION H-H
(1/2" = 1'-0")



Section a-a
(1/2" = 1'-0")



Section b-b
(1/2" = 1'-0")



DESIGNED

DRAWN

REVIEWED

8-JKB-57.6

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

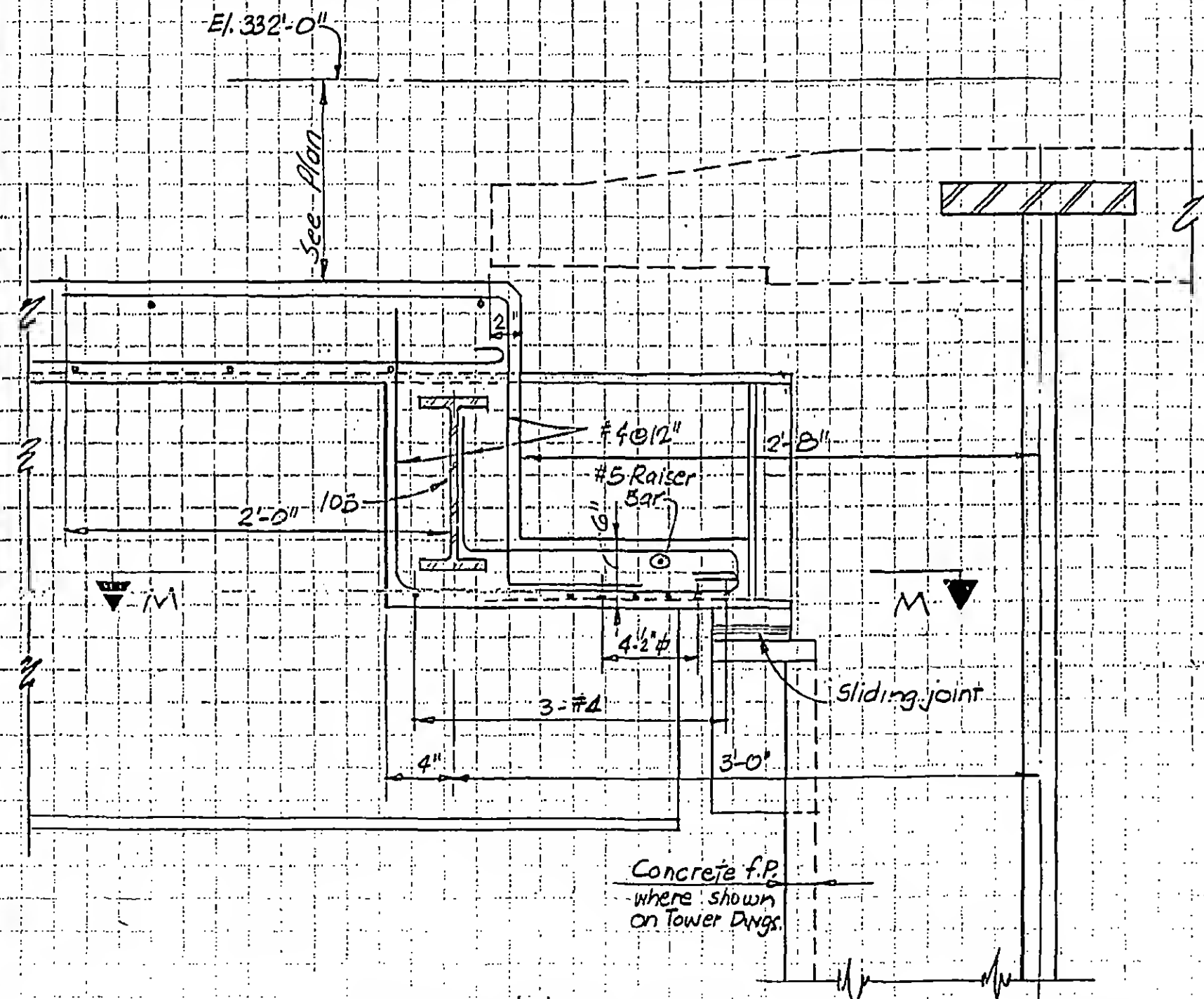
TITLE

CONCRETE DETAILS - EL. 332

DATE

3-2-71

REVISIONS



Section K-K

of Tower
Perimeter
Columns



DESIGNED

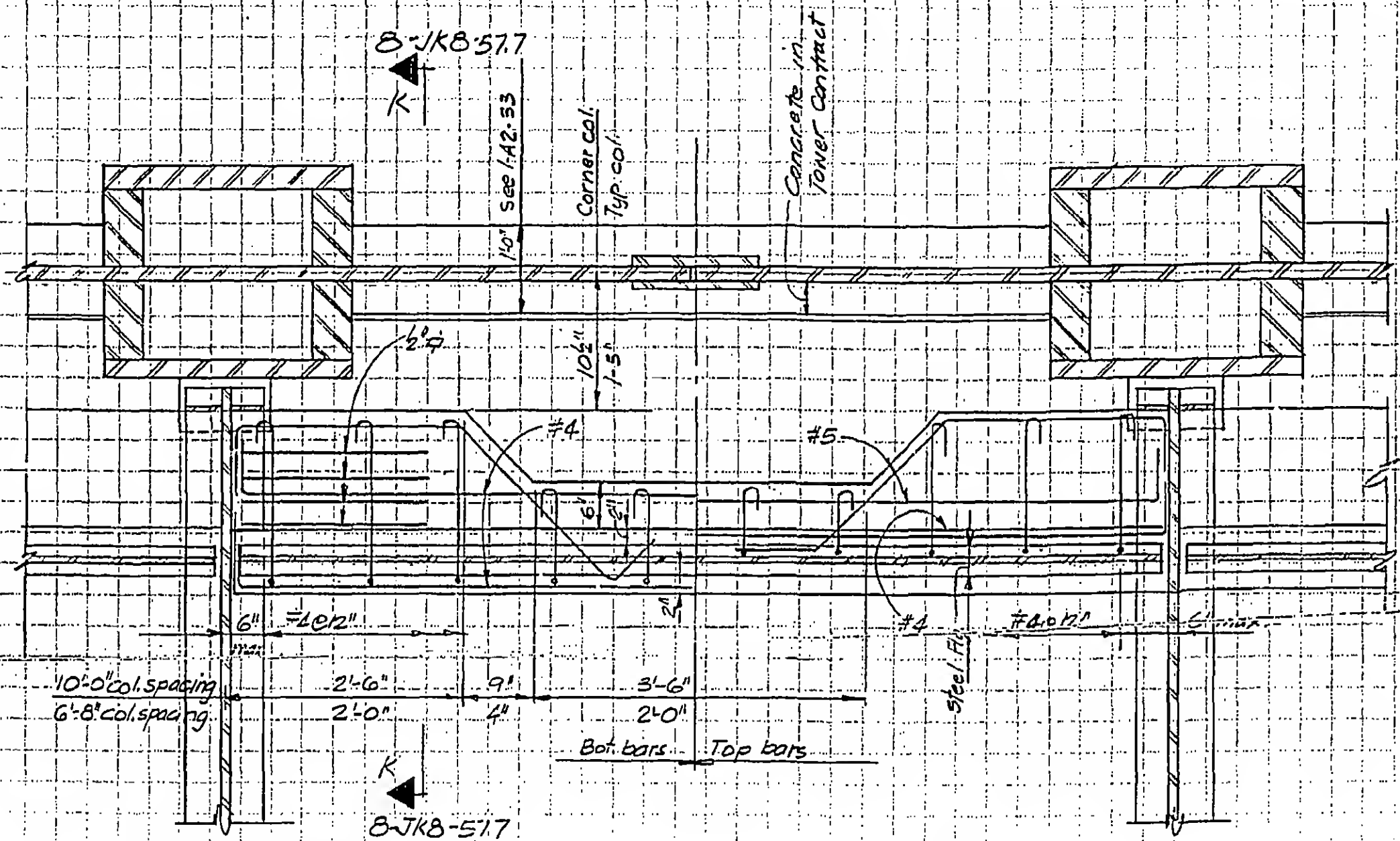
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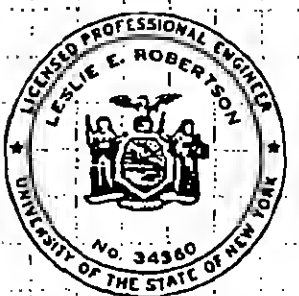
REVIEWED

B-JK8-57.7

REVISIONS



Horizontal Section M-M



DESIGNED

DRAWN

P. O'Brien

REVIEWED

8-JK8-57.8

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

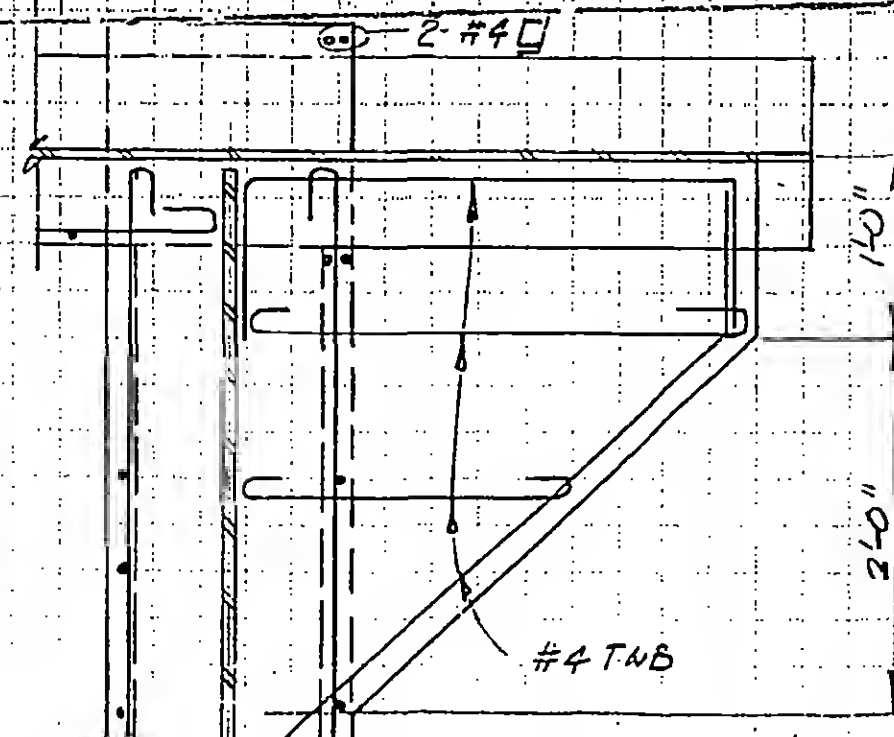
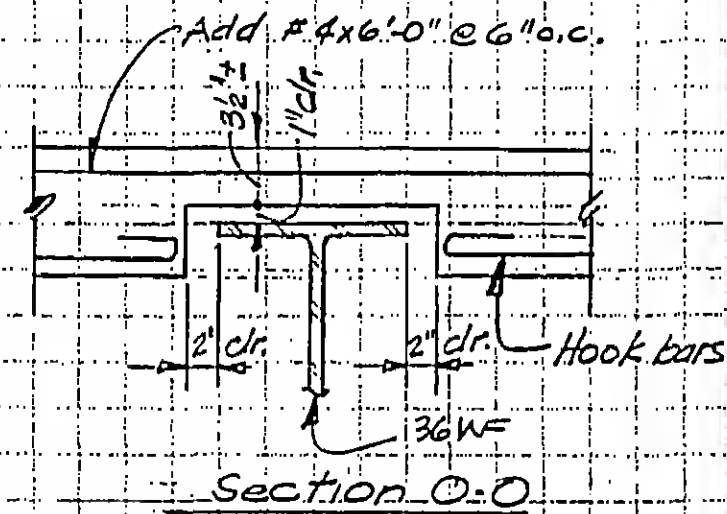
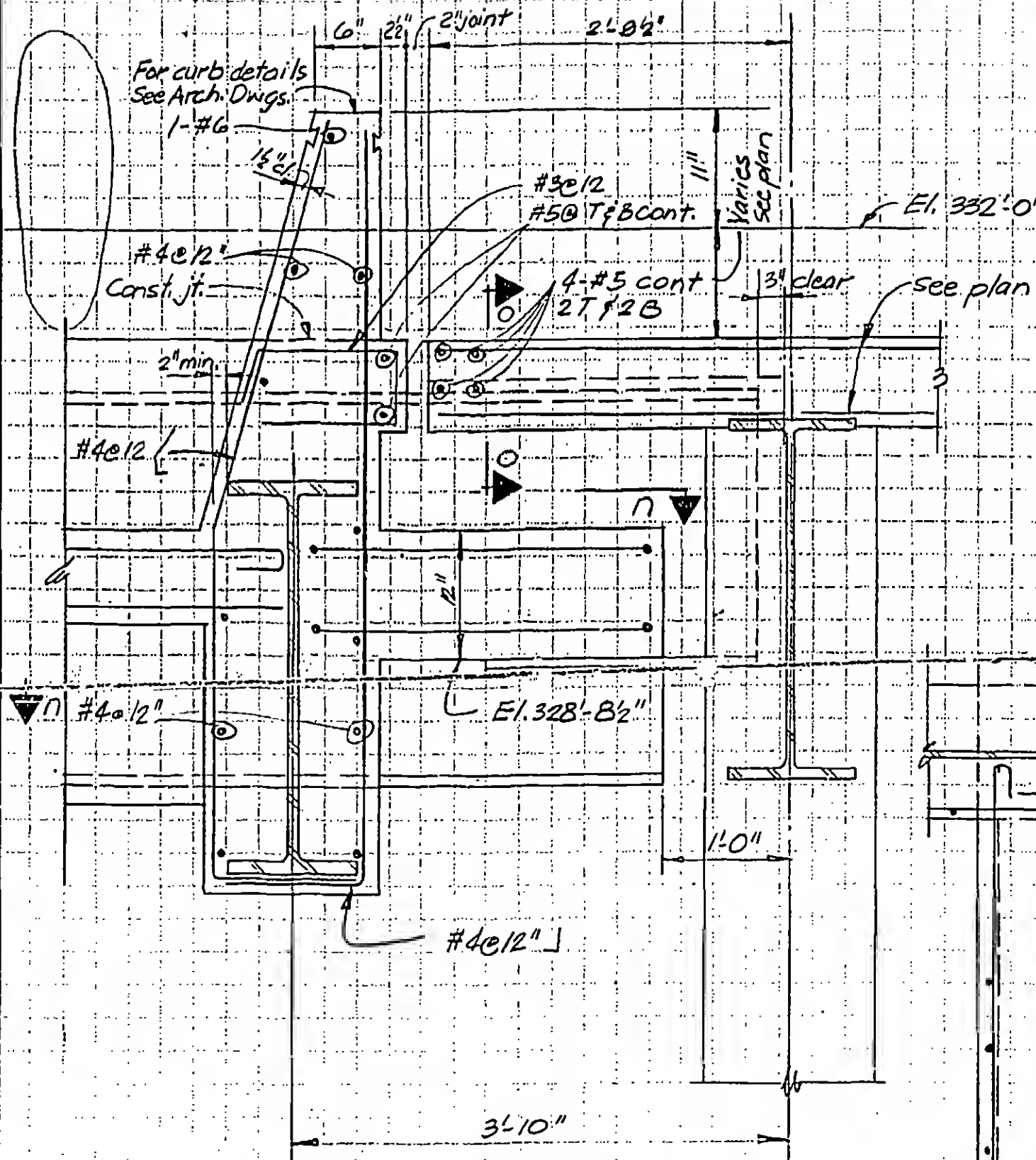
PROJECT THE WORLD TRADE CENTER

TITLE CONCRETE DETAILS, EL 332

DATE 3-2-71

REVISIONS

4-9-71
Release for
construction
12/6/72



DESIGNED

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

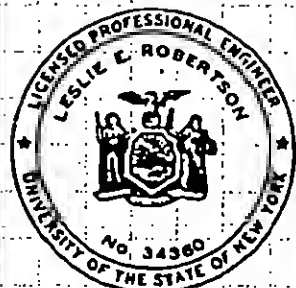
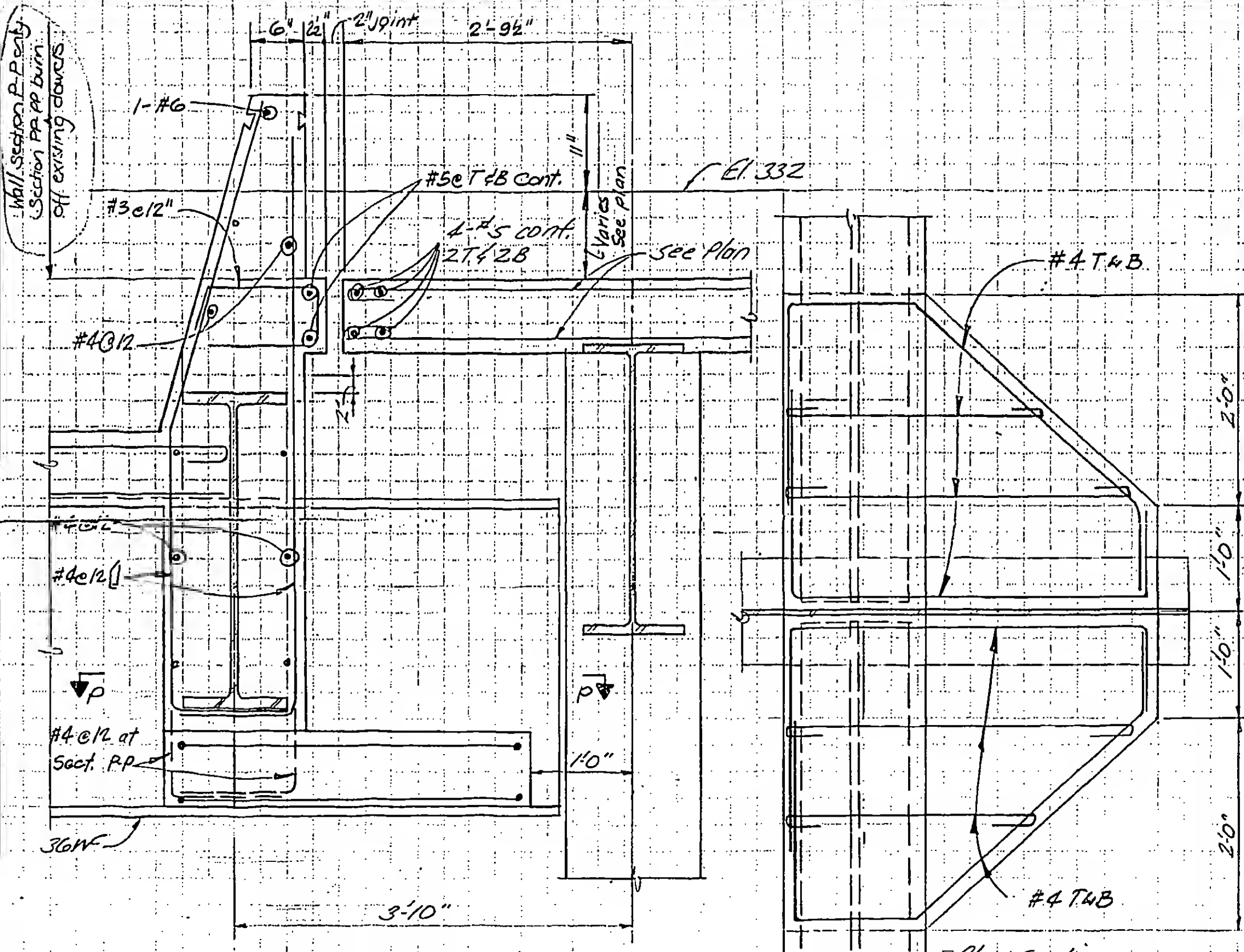
TITLE CONCRETE DETAILS - EL. 332

DATE 3-2-71

REVISIONS

4-9-71
Release for
construction
12-72

Wall section P-P only
Section PP PP burn
off existing doors



DESIGNED

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE CONCRETE DETAILS - EL. 332

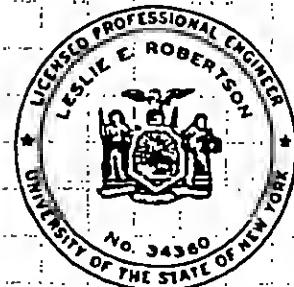
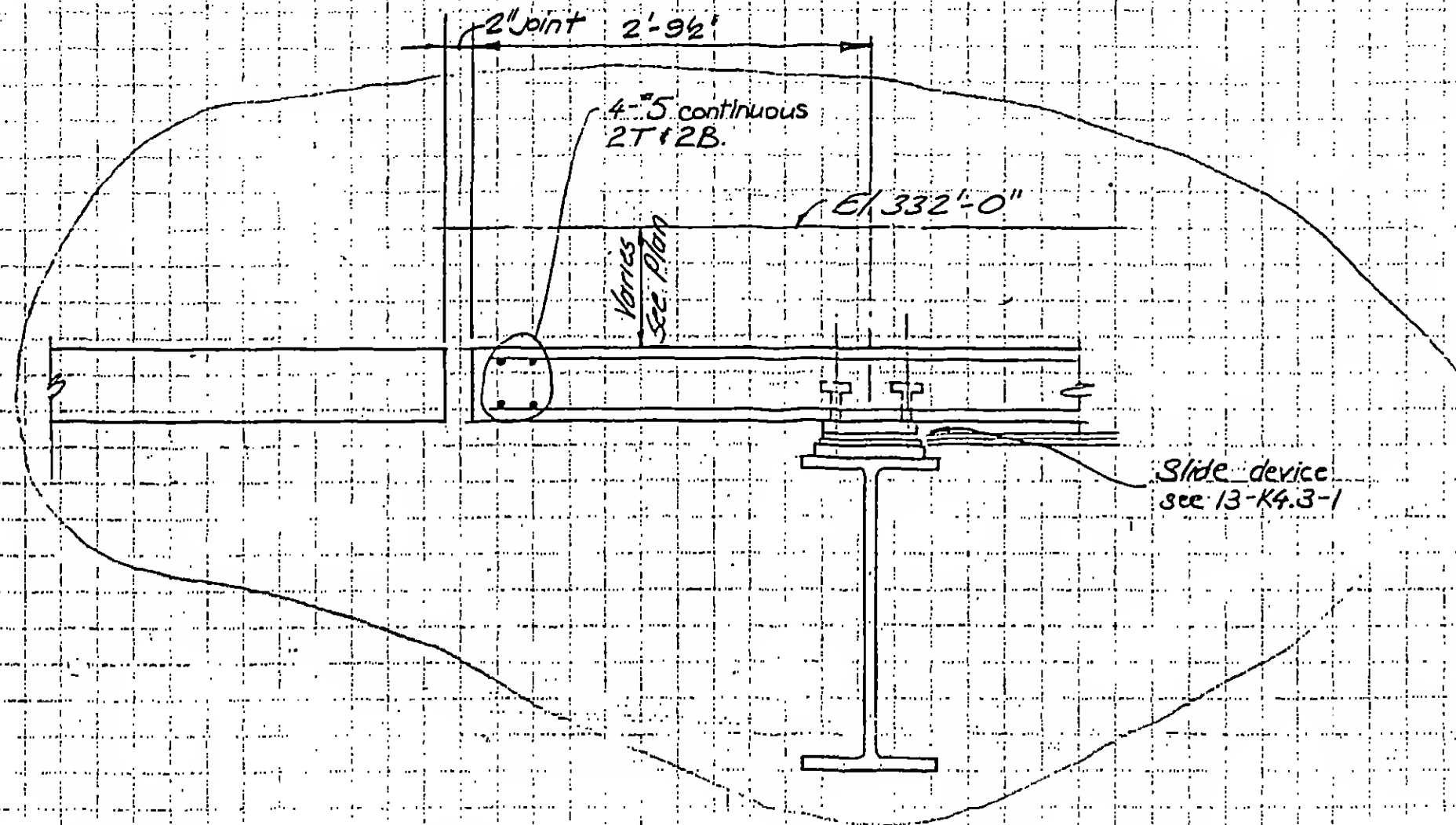
DATE 3-2-71

REVISIONS

4-9-71
Release for
construction

10-7-71

12-8-72



DESIGNED
H. Root

DRAWN
P. Quake

REVIEWED

Section Q-Q

8-JKB-57.11

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE CONCRETE DETAILS - EL. 332

DATE 4-9-71

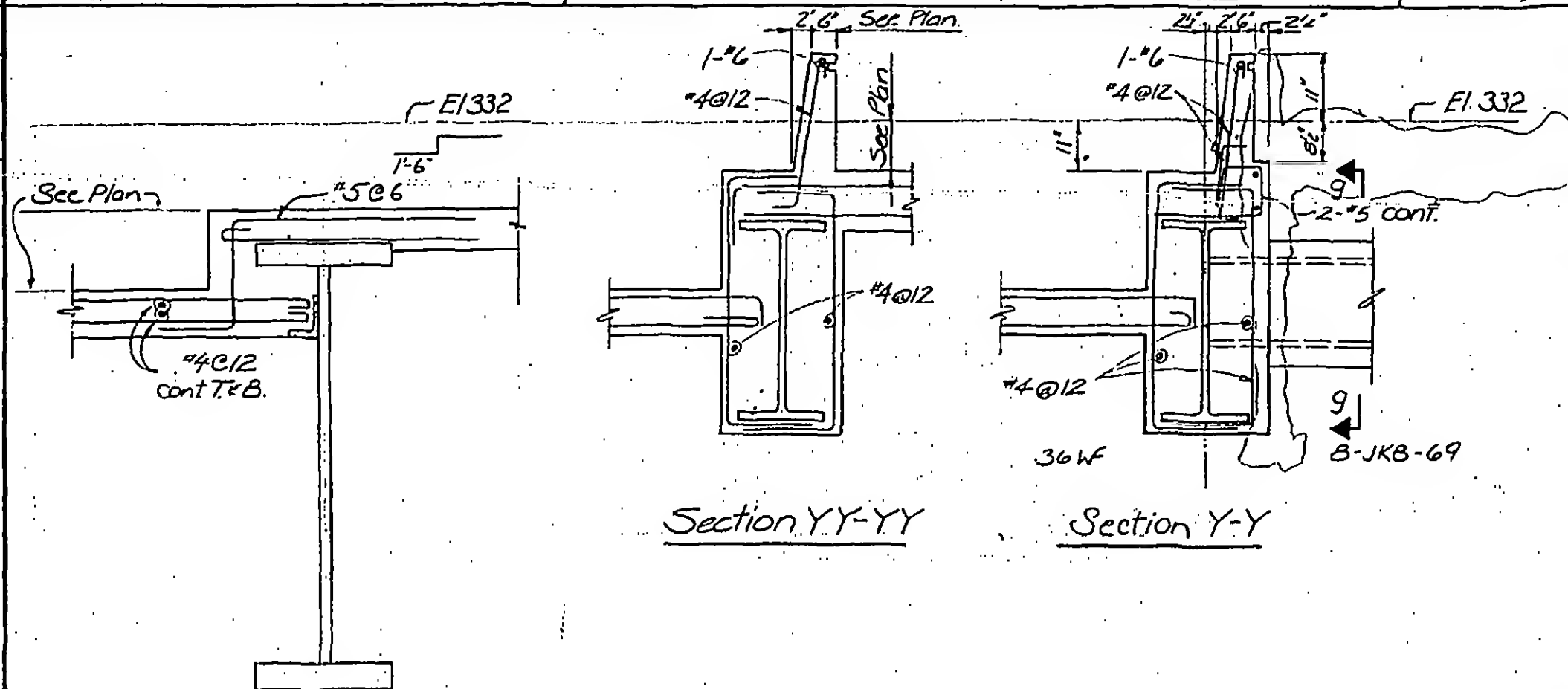
REVISIONS

12/8/72

7/27/73

9-19-73

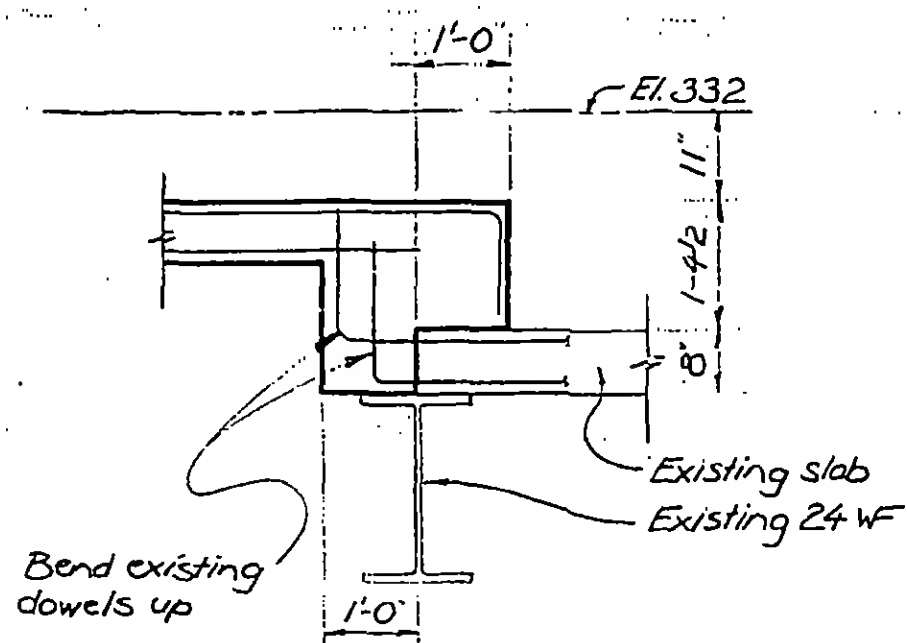
10-21-74



Section YY-YY

Section Y-Y

Section X-X



Section Z-Z

DESIGNED,
WABDRAWN
J BanksREVIEWED
JTM

B-JKB-57.12.

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE CONCRETE DETAILS - EL 332

DATE 3-2-71

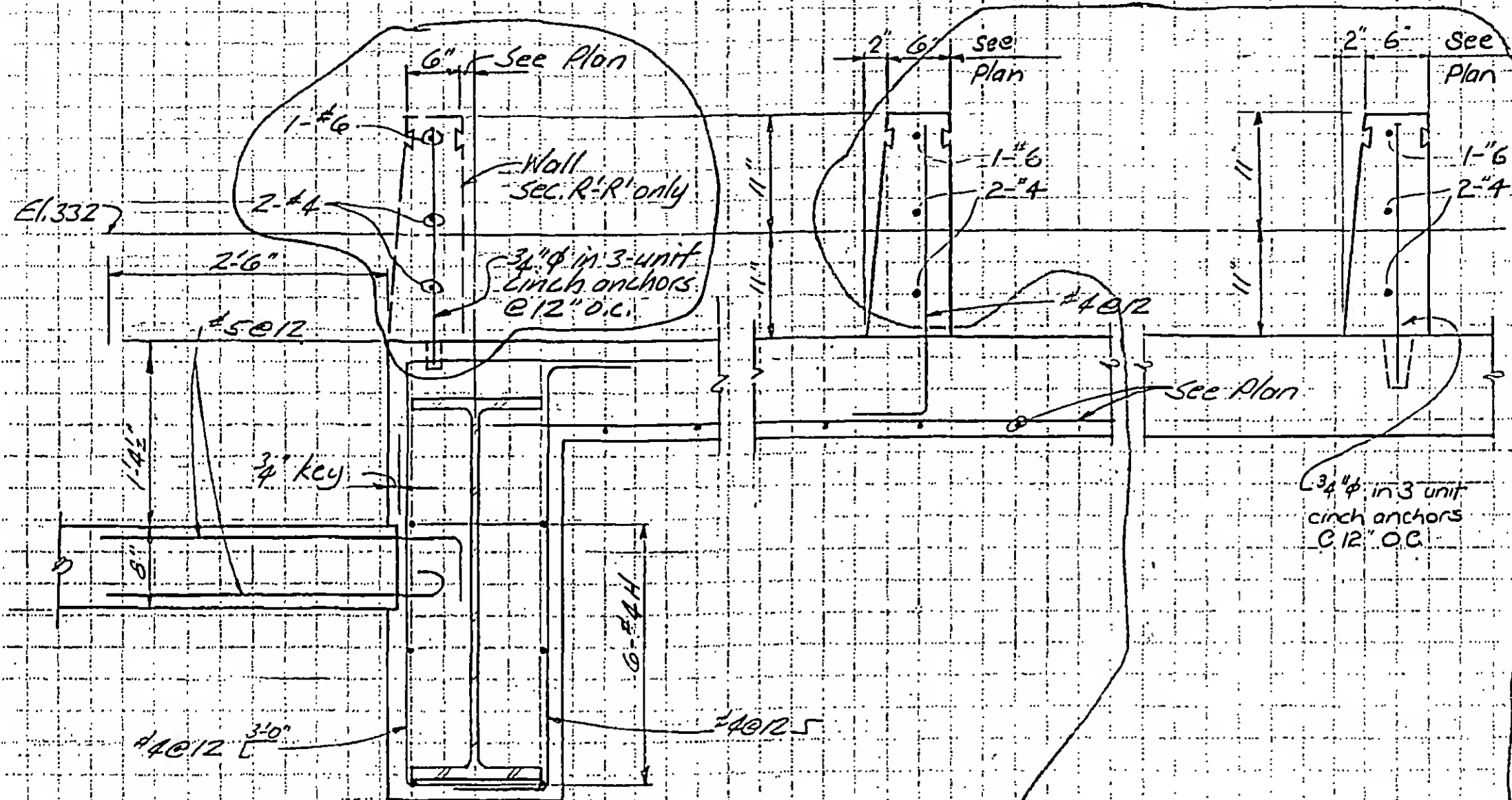
REVISIONS

4-9-71
Release for
Construction

10-7-71

1-15-72

12-8-72



Section R-R

Section R'-R' as noted

Section RR-RR

Section RRR-RRR



DESIGNED

DRAWN

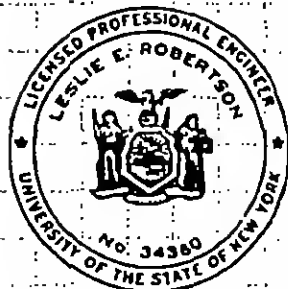
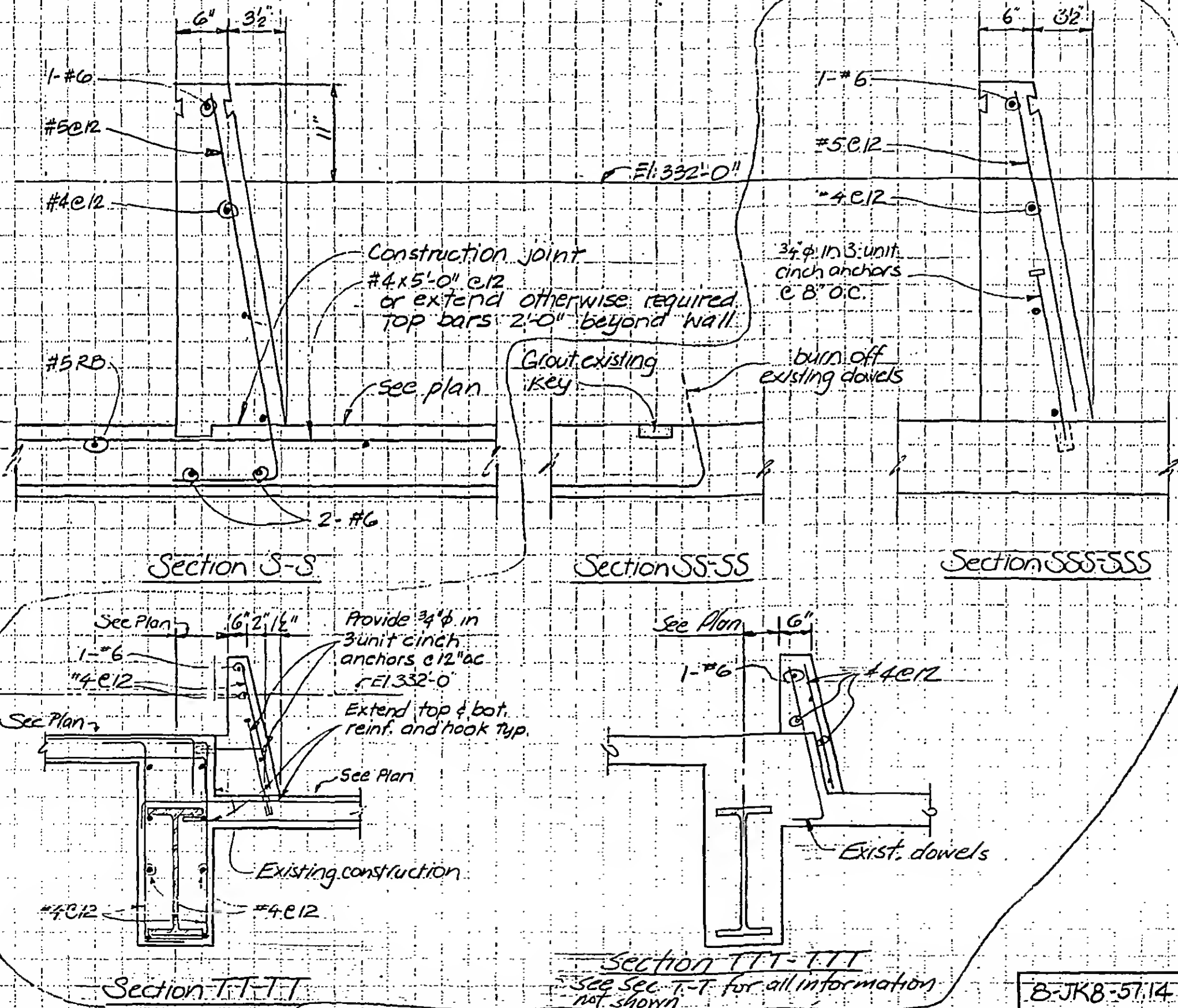
W. Brewer

8-JKB-57.13

REVISIONS

10-7-71

12-8-72



DESIGNED

DRAWN

REVIEWED

B-JK8-57.14

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

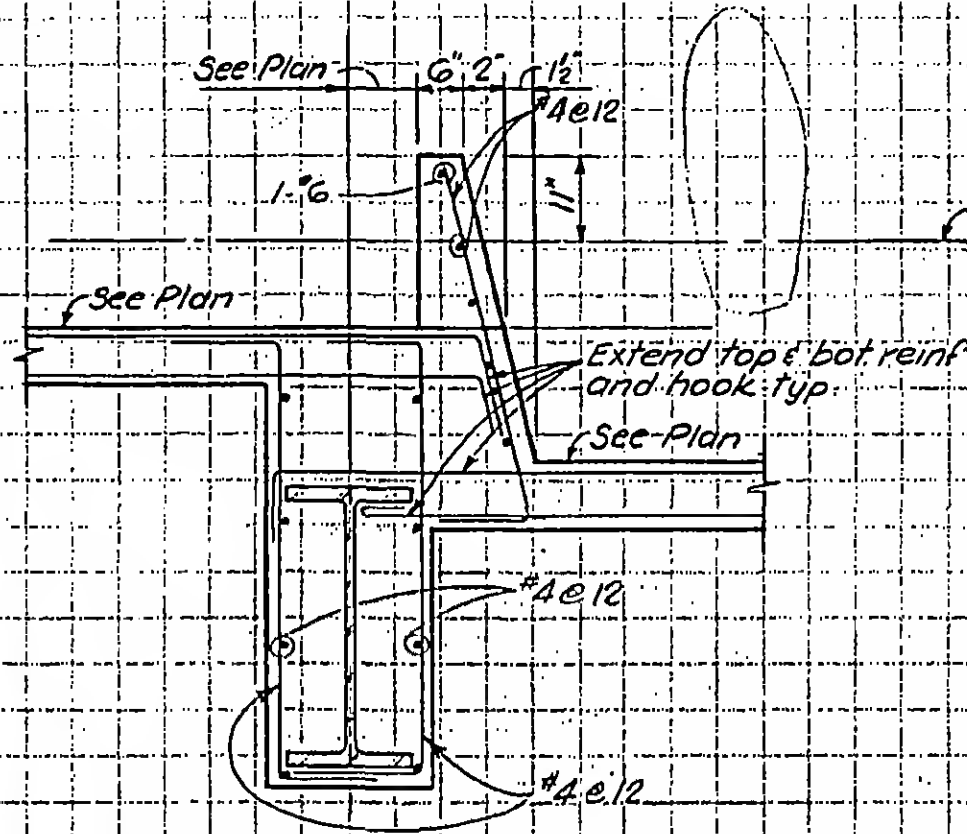
PROJECT THE WORLD TRADE CENTER

TITLE CONCRETE DETAILS EL. 332

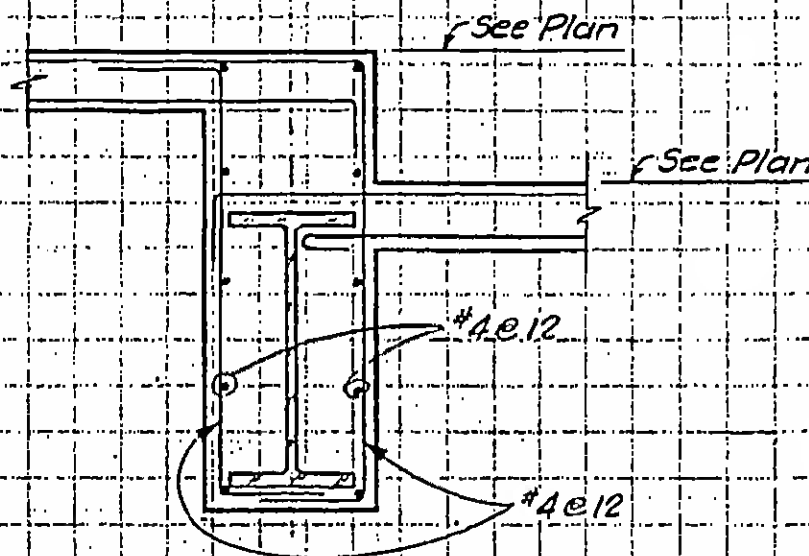
DATE 10-7-71

REVISIONS

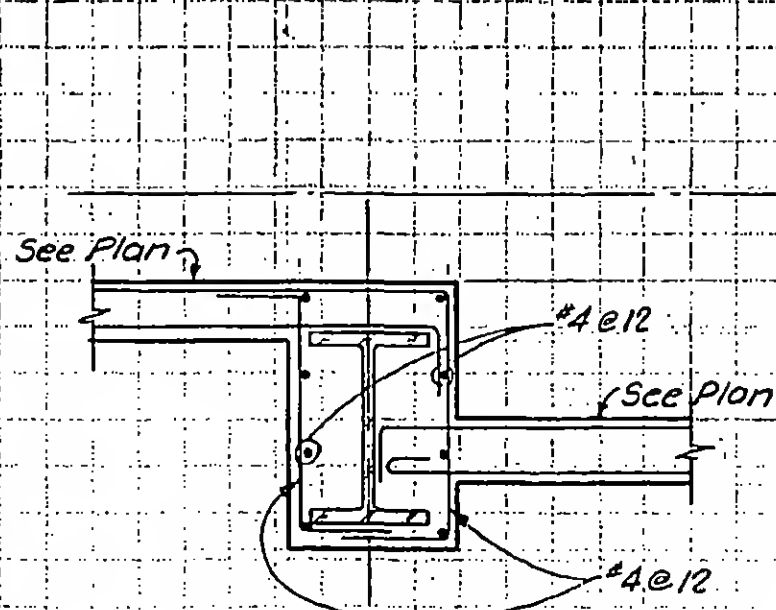
12-8-72



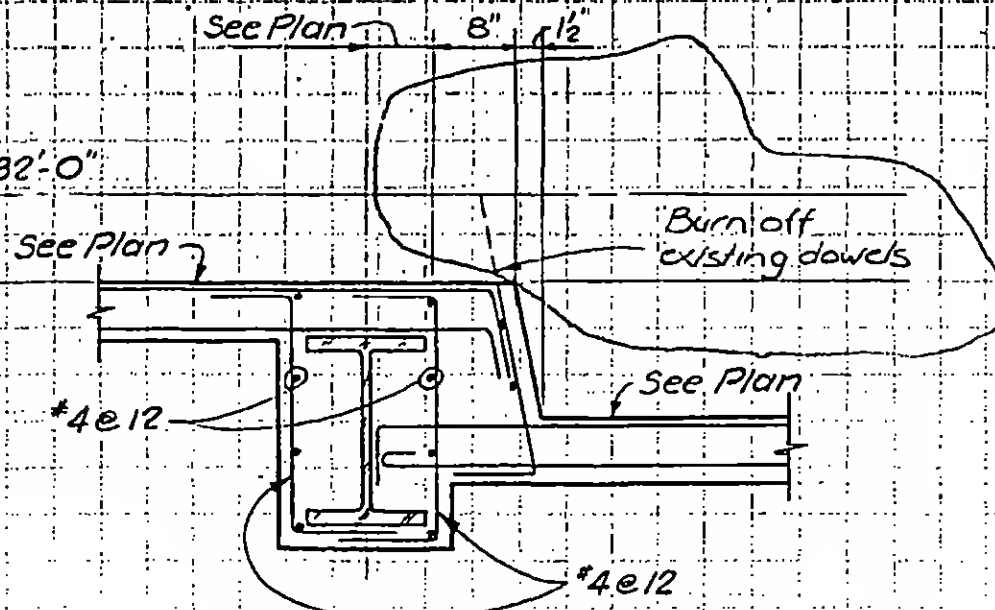
Section T-T



Section U-U



Section V-V



Section W-W



DESIGNED

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

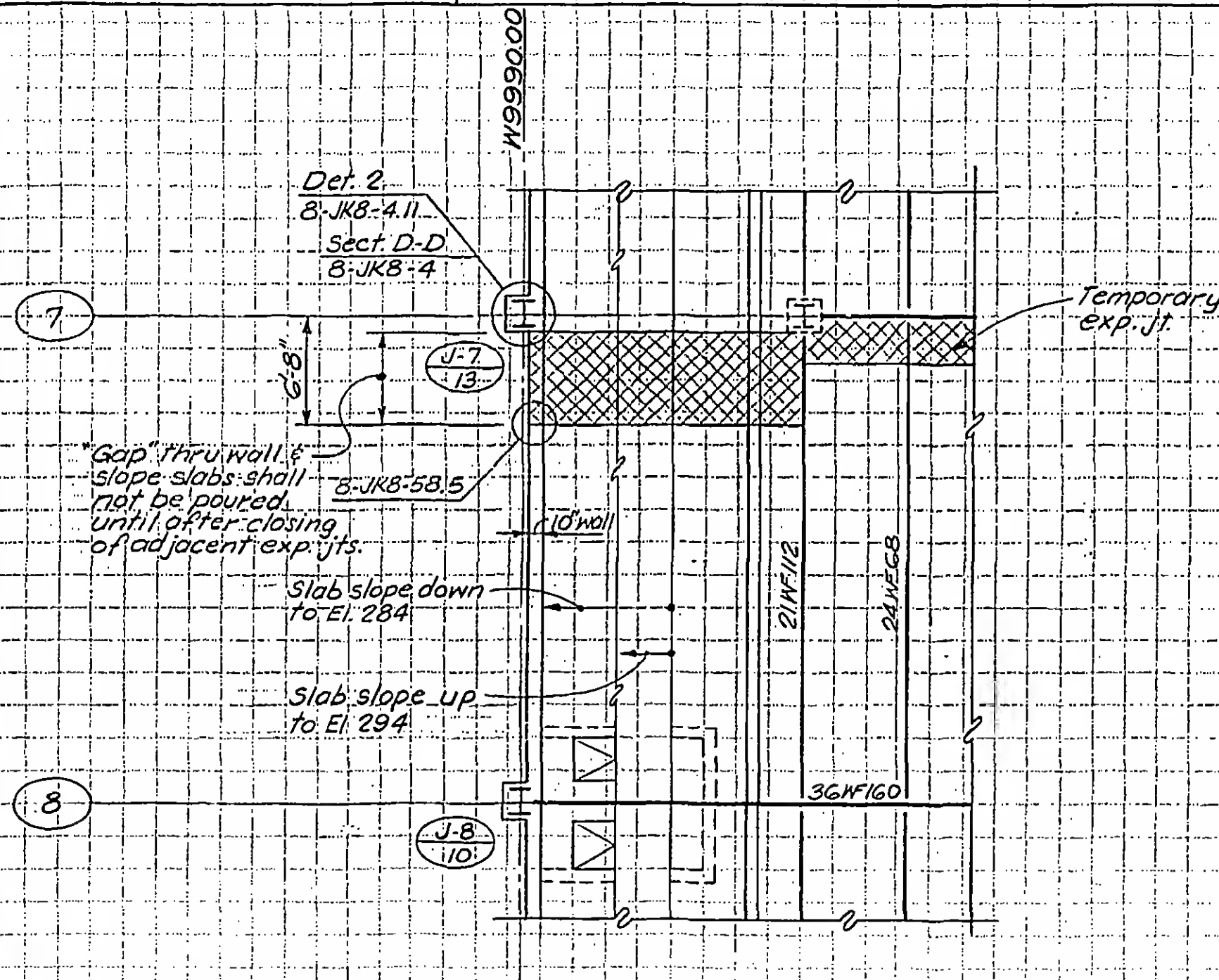
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE PROCEDURE OF FLOOR CONSTRUCTION @ EL. 290 (ZONE J-4)

DATE 9-30-70

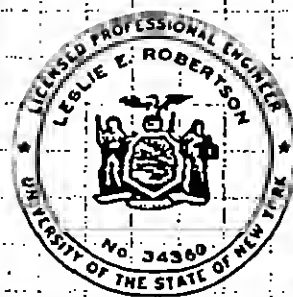
REVISIONS



Notes:

1. See SCJ-76 for other information not shown.

2. See also 8-JK8-58.4

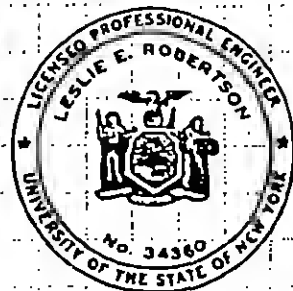
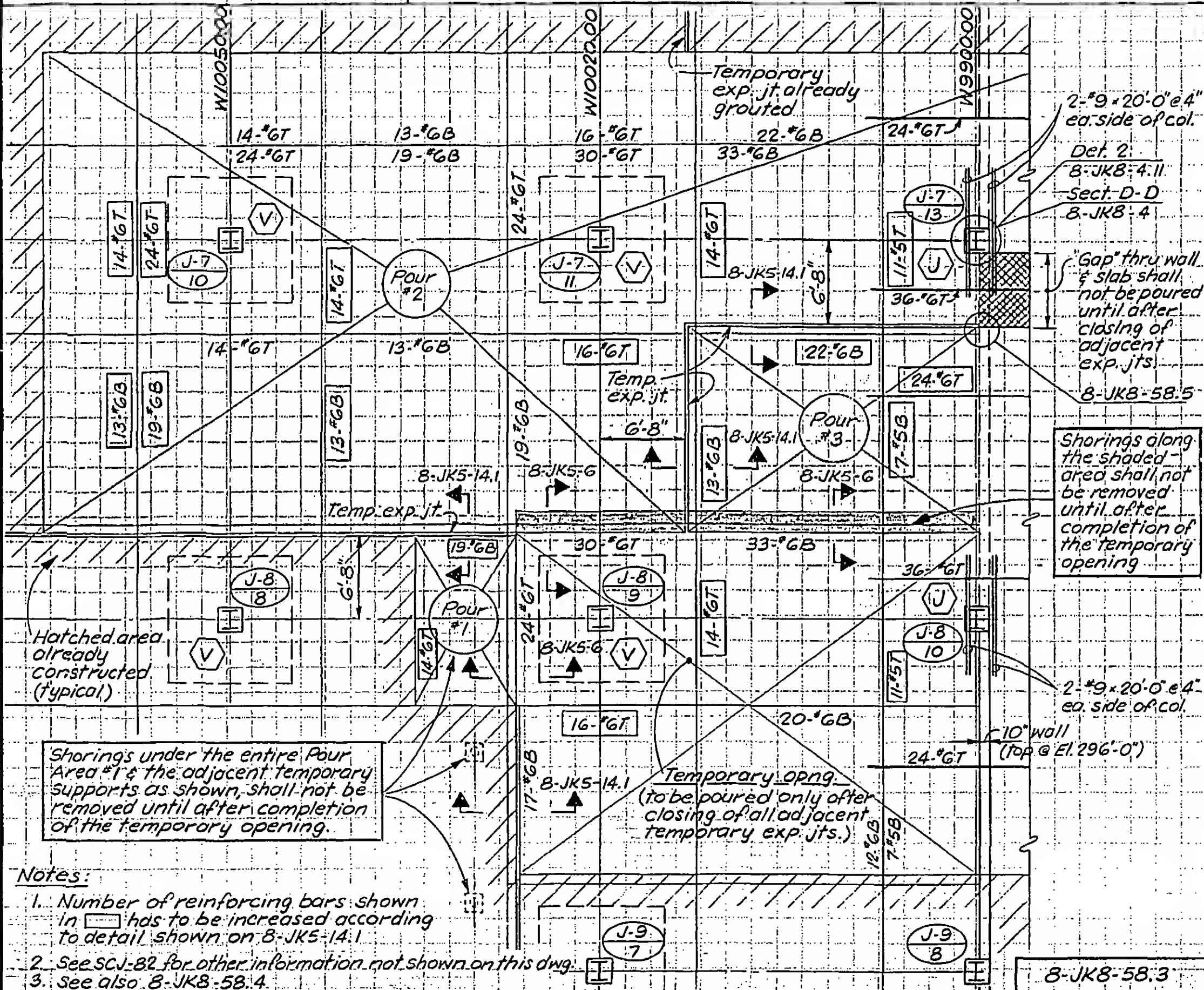


DESIGNED

REVISIONS

7

8



DESIGNED

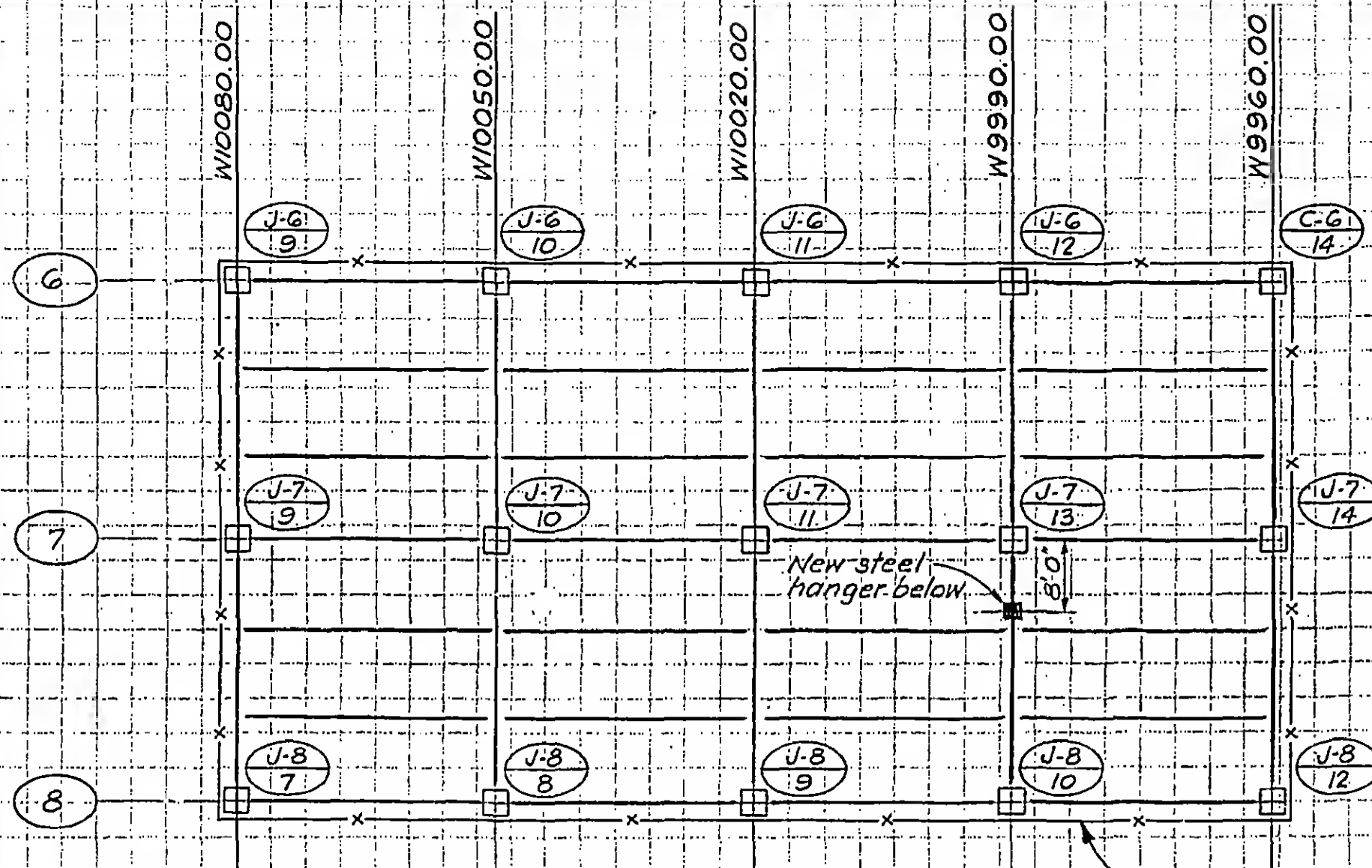
DRAWN
S.C.REVIEWED
E.L.

PROJECT THE WORLD TRADE CENTER

TITLE LIVE LOAD RESTRICTION AT EL. 310 (ZONE J-4)
DUE TO THE HANGING OF FORMWORK FROM FLOORS BELOW

DATE 9.30.70

REVISIONS

Part Plan at El. 310

Contractor to "Fence-Off" the entire area as shown to restrict any live load into this area. This restriction shall not be lifted until after removal of all formwork hanger rods and the steel hanger below. Contractor to submit formwork "hanger-rod" details for approval.



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DRAWN
S.C.REVIEWED
E.L.

8-JKB-58.4

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

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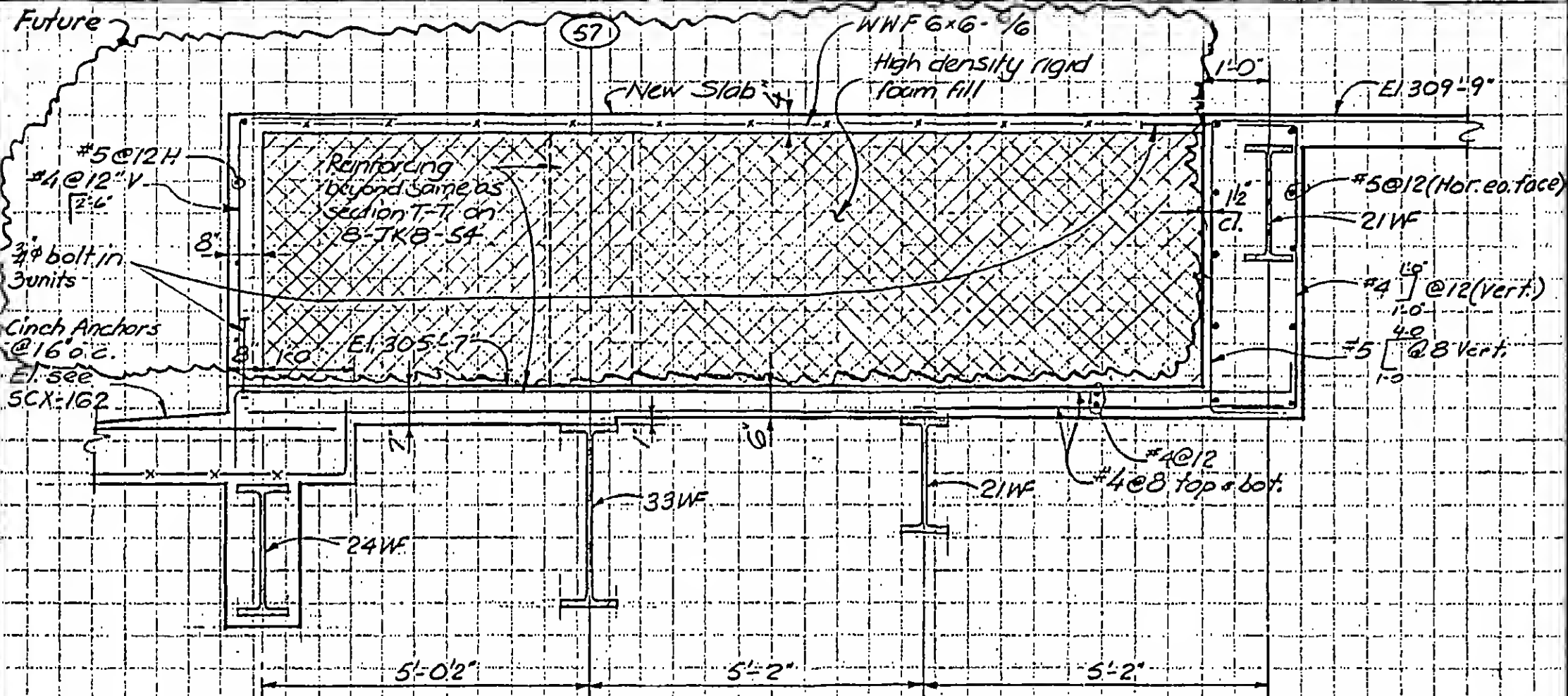
PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT EL. 310 - ZONE K-5

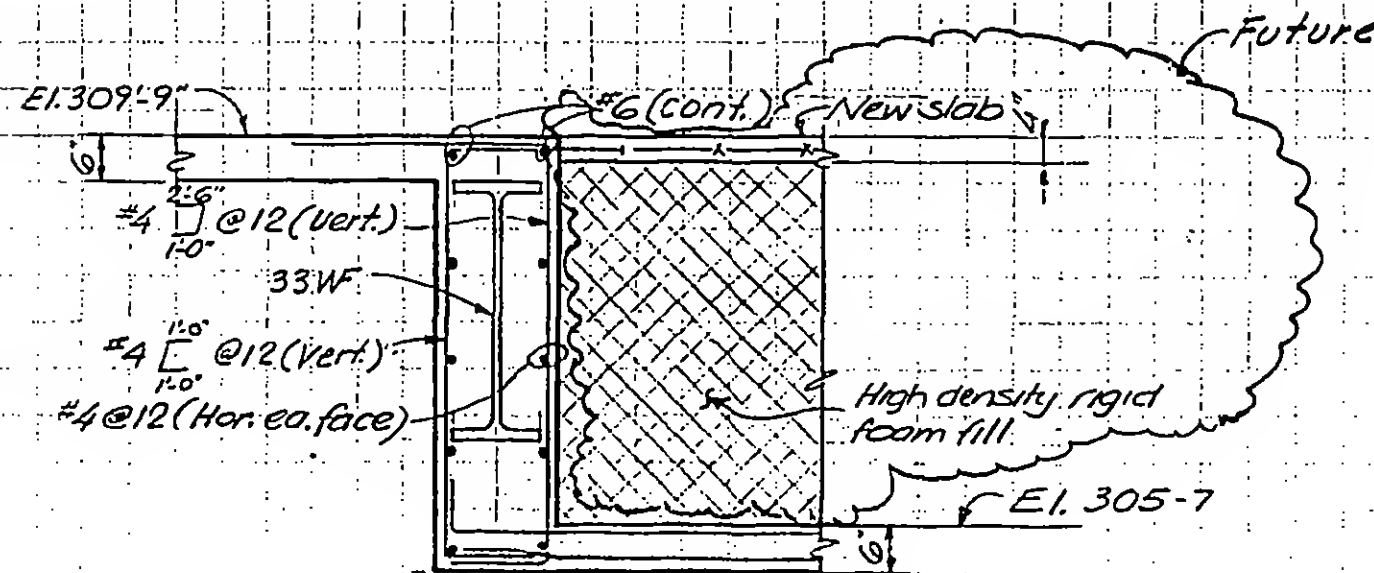
DATE 1-15-71

REVISIONS

6-15-73



Section A-A



DESIGNED
K. CHIANG

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

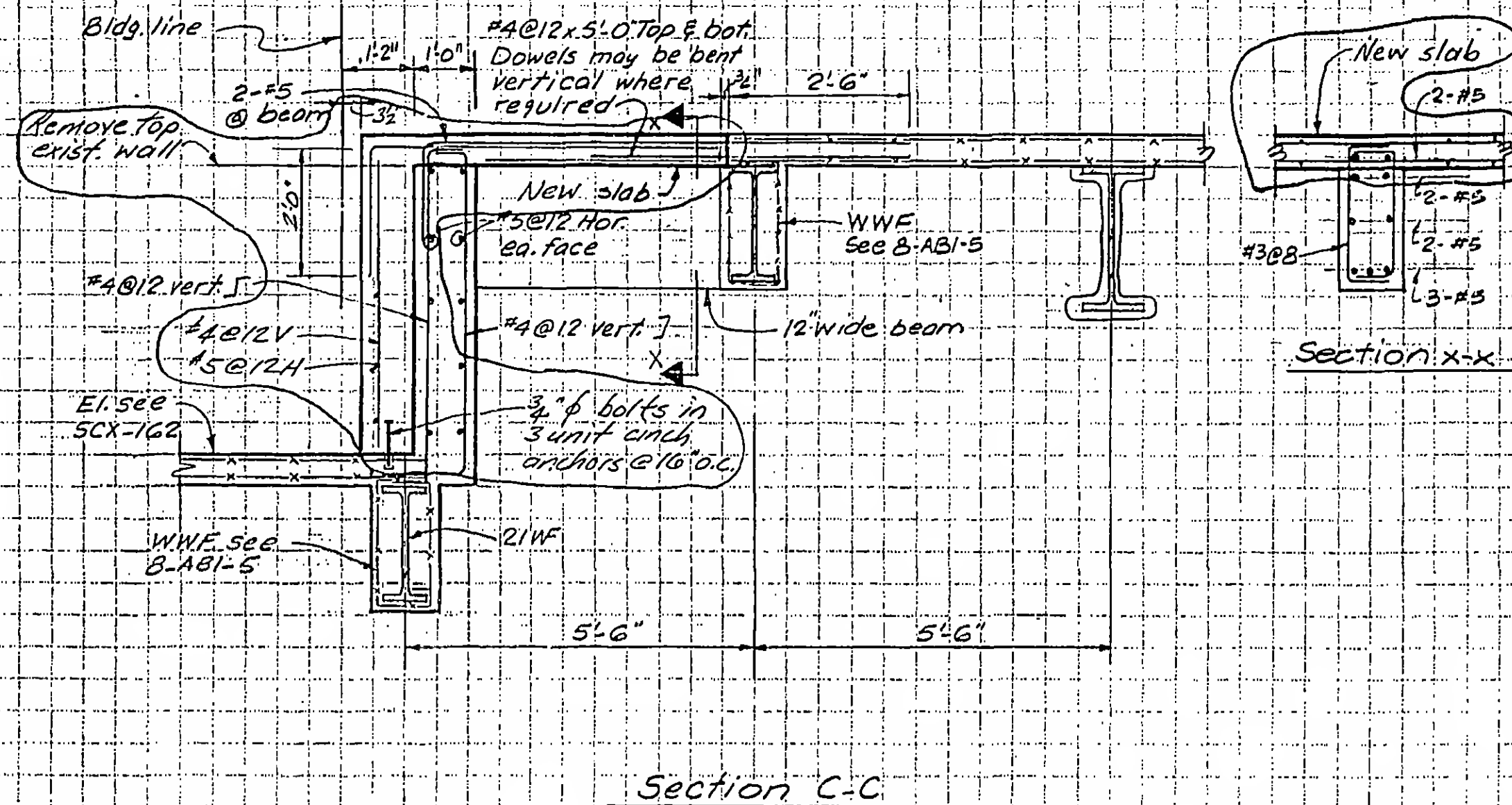
PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT EL. 310 - ZONE K-5

DATE 1-15-71

REVISIONS

6-15-73

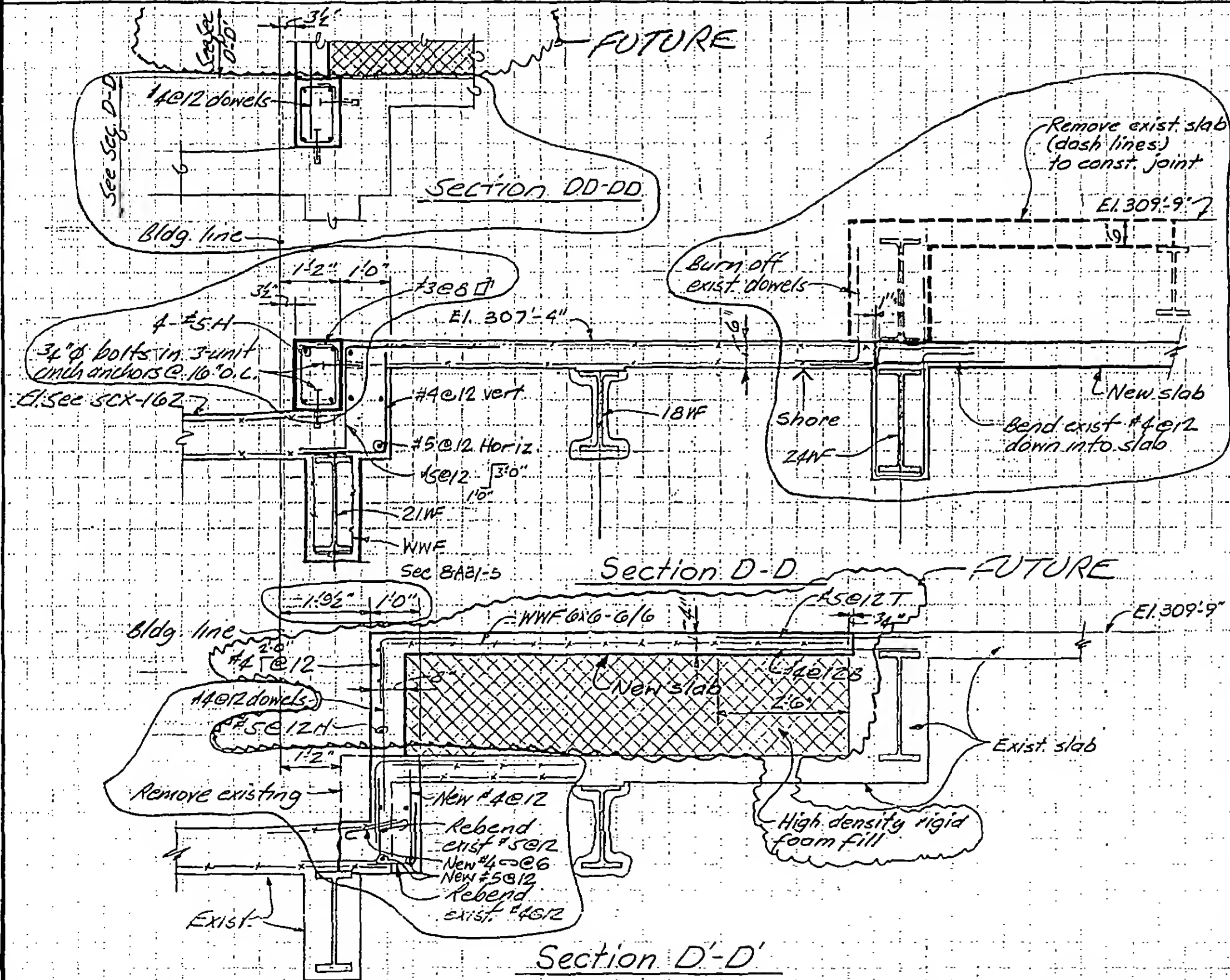
DESIGNED
K. CHIANGDRAWN
A. FRANQUIREVIEWED
WAB

8-JK8-59.2

REVISIONS

9-20-71

6-15-73

DESIGNED
K. CHIANGDRAWN
A. FRANQUIREVIEWED
WAB

8-JKB-59.3

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

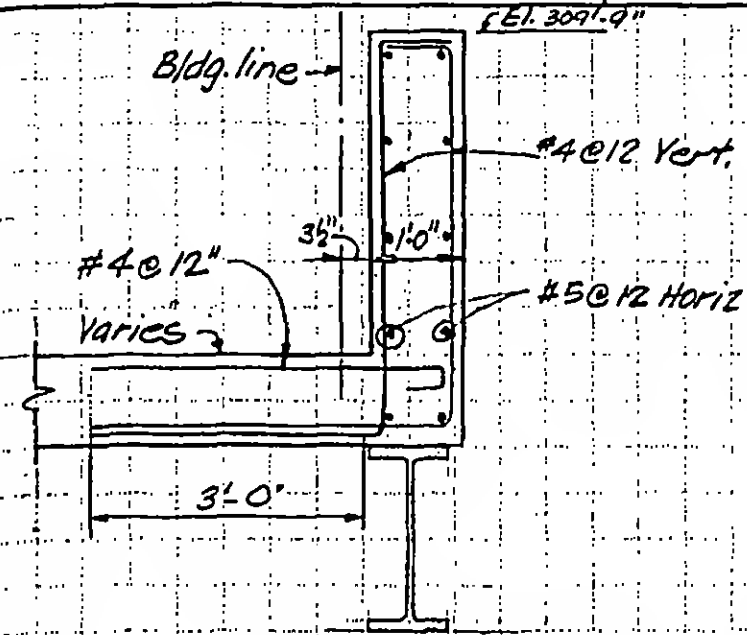
TITLE SECTIONS AT EL. 310 - ZONE K-5

DATE 1-15-71

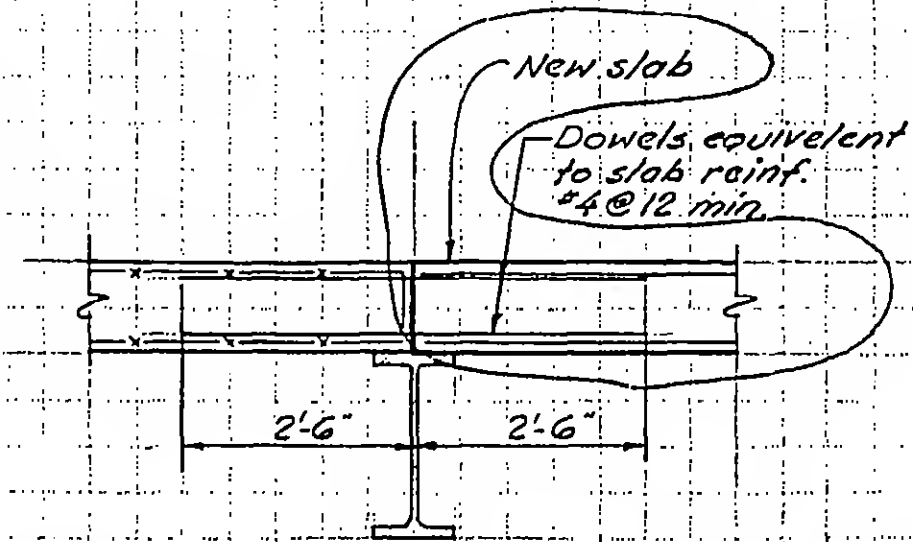
REVISIONS

9-15-71

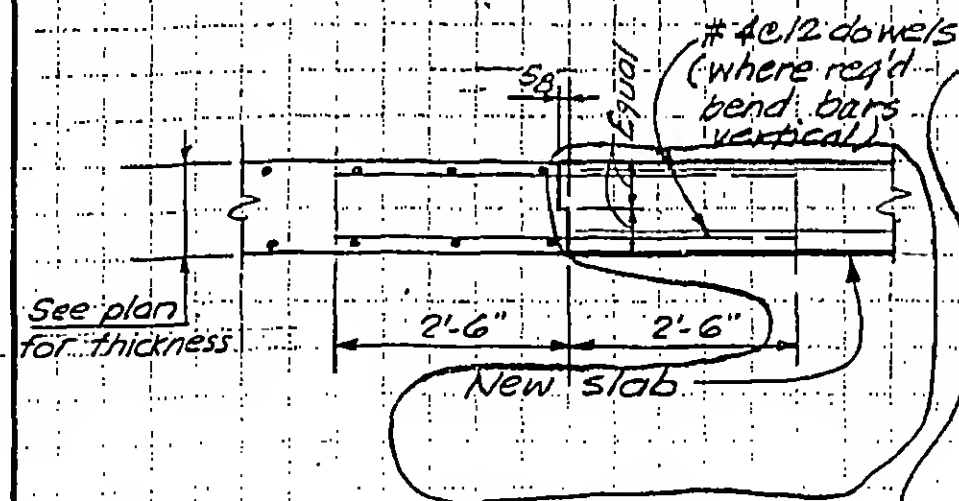
6-15-73



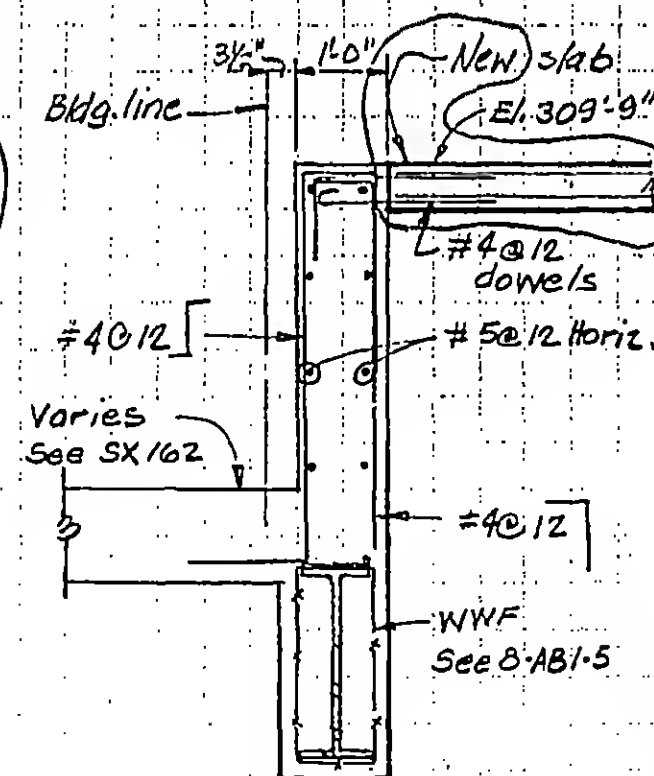
Section E-E



Section F-F



Section G-G



Section K-K

DESIGNED
K. CHIANGDRAWN
A. FRANQUIREVIEWED
Wap

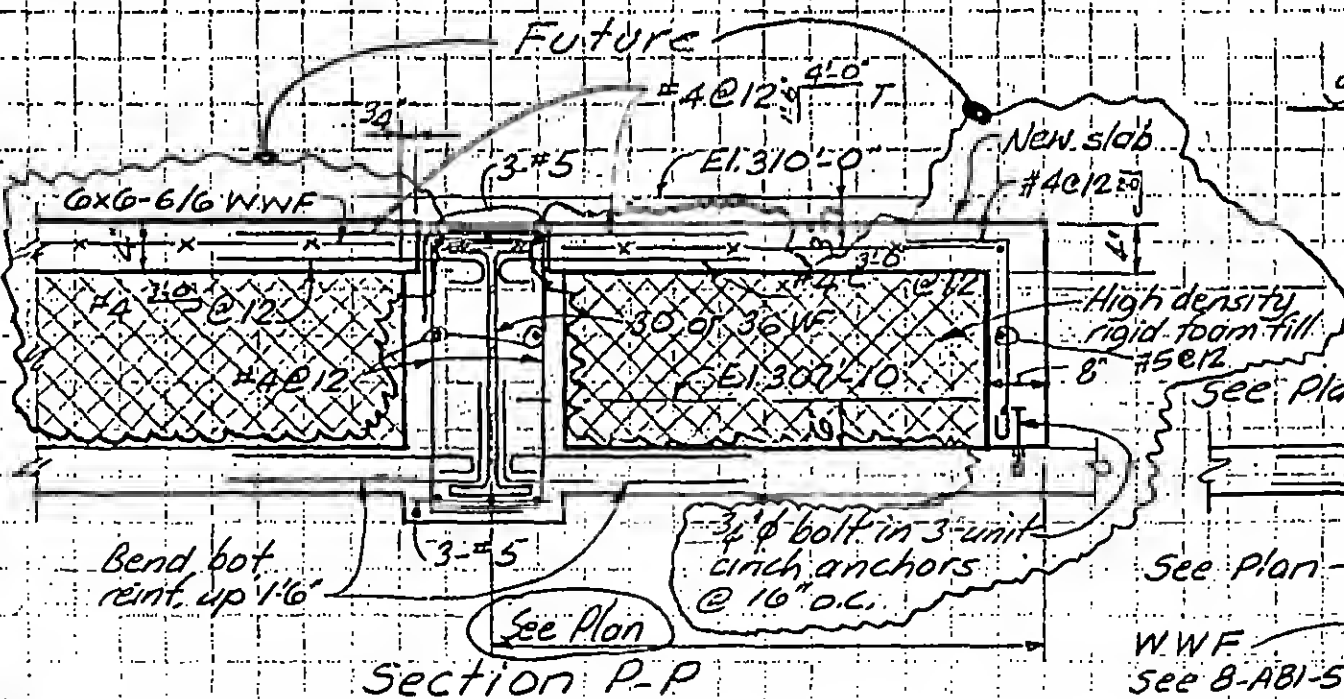
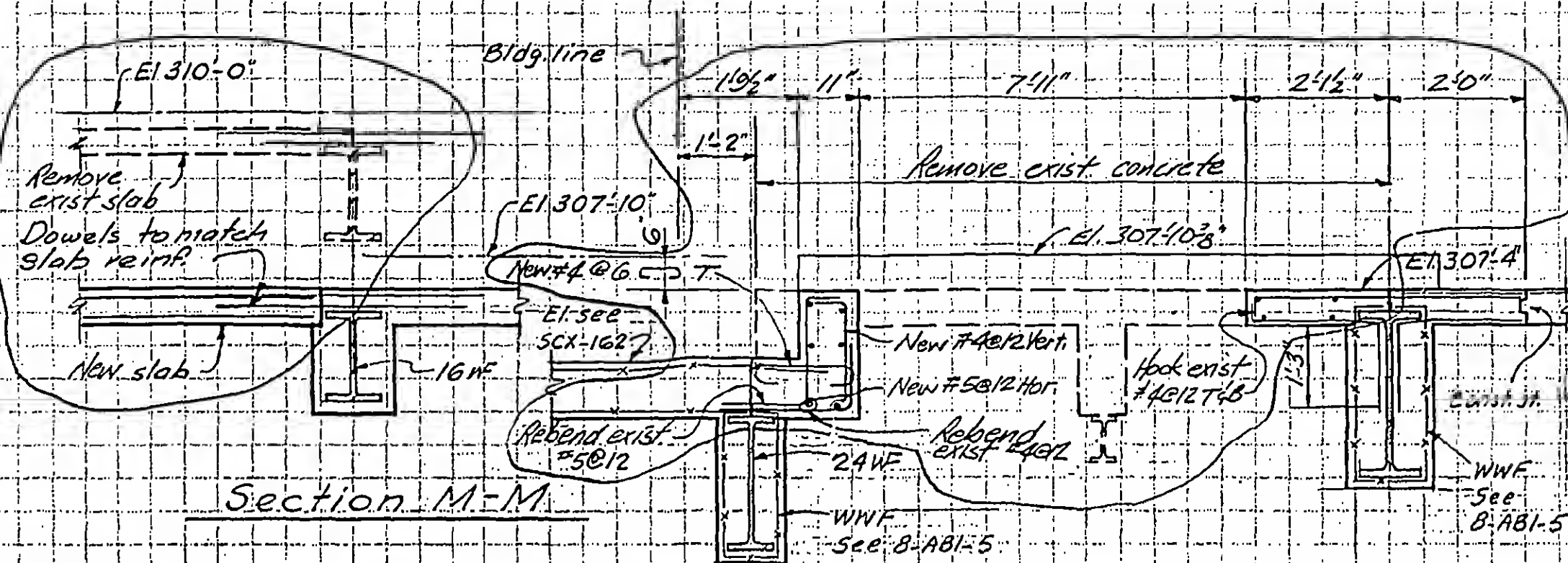
8-JK8-59.4

REVISIONS

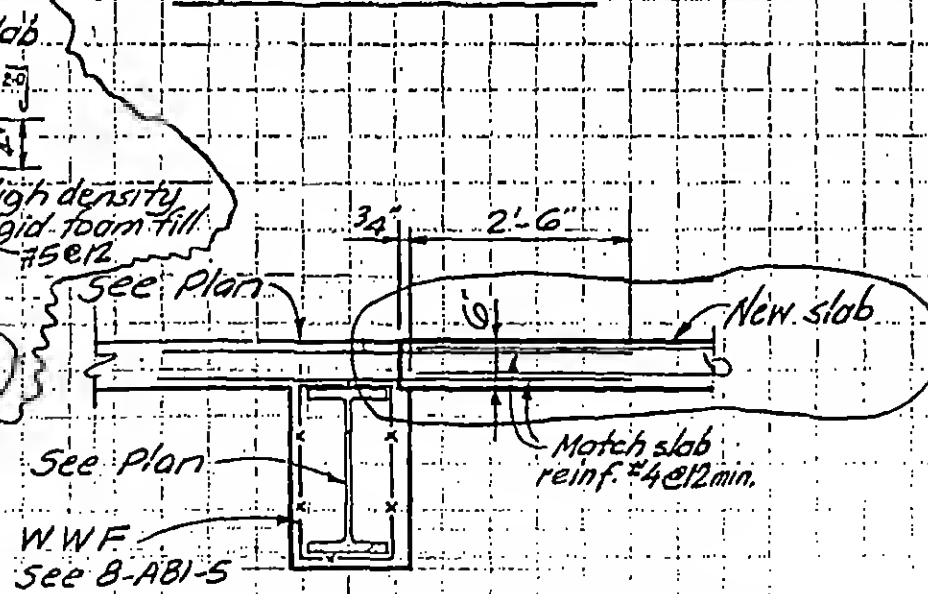
9-20-71

3-10-72

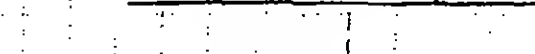
6-15-73



Section N-N



Section Q-Q



DESIGNED

DRAWN

J.G.

REVIEWED

J.G.

8-JK8-59.5

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

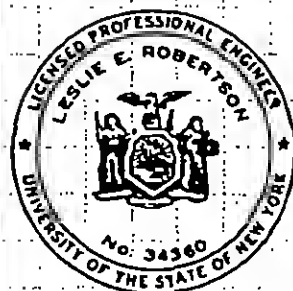
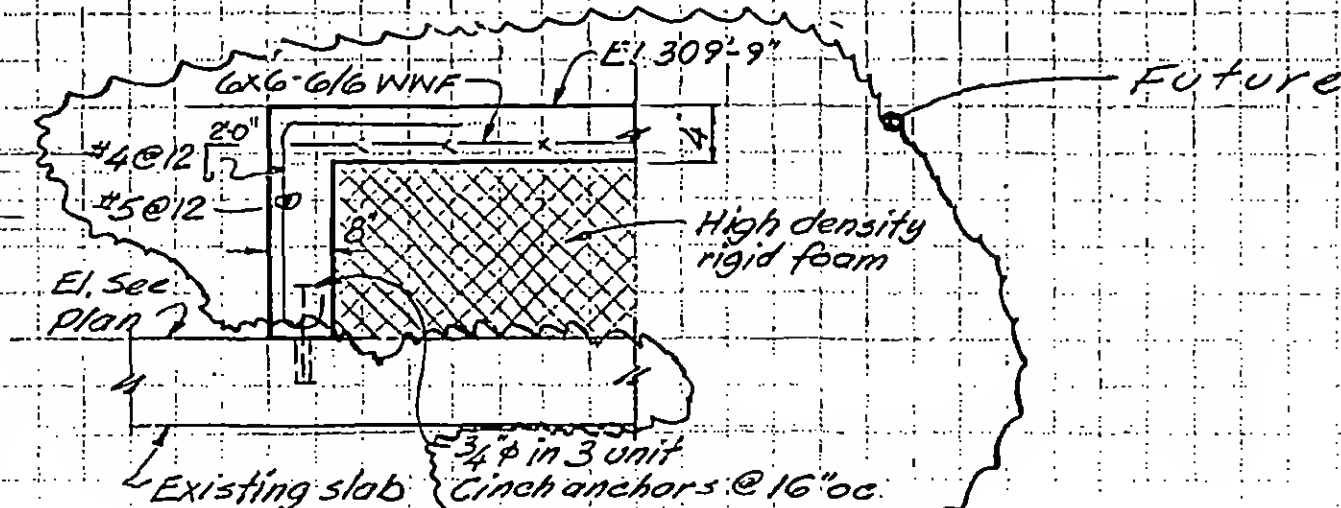
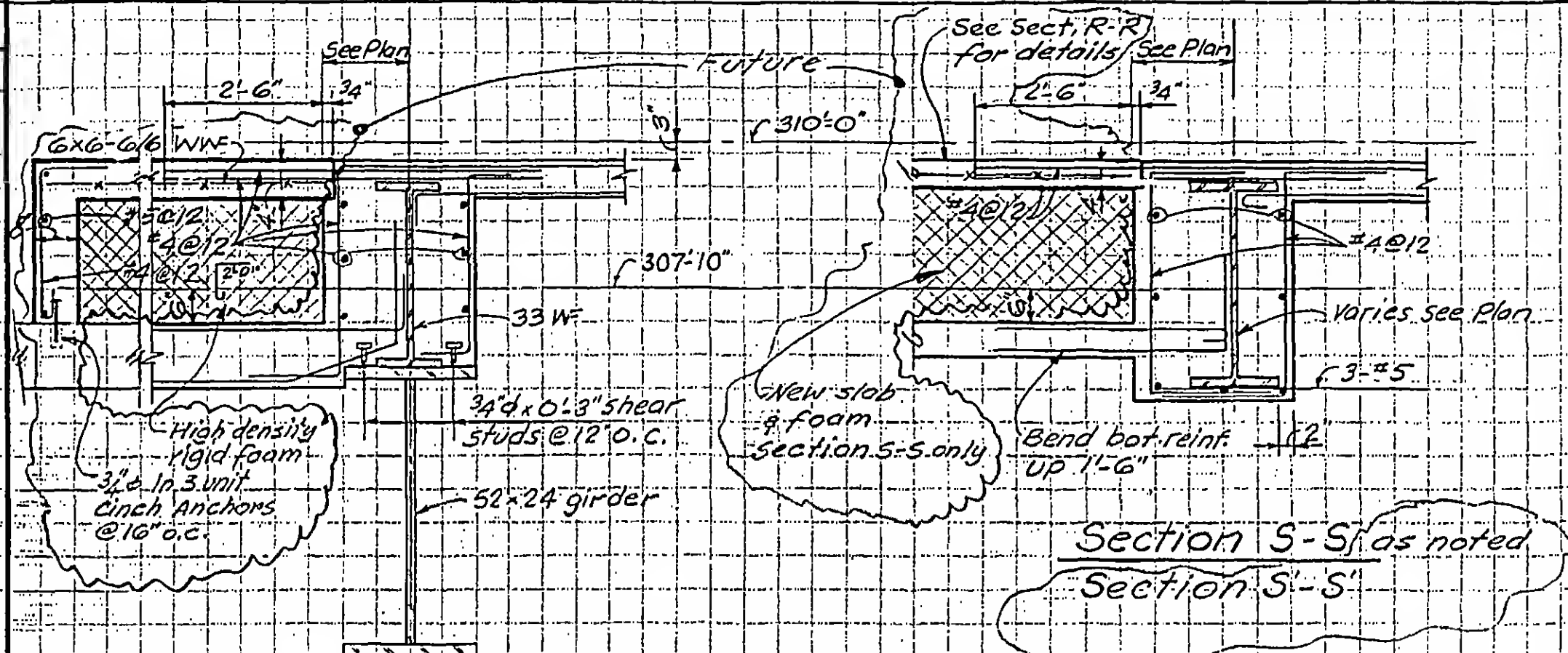
PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS EL 310

DATE 9-20-71

REVISIONS

0-15-73



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SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

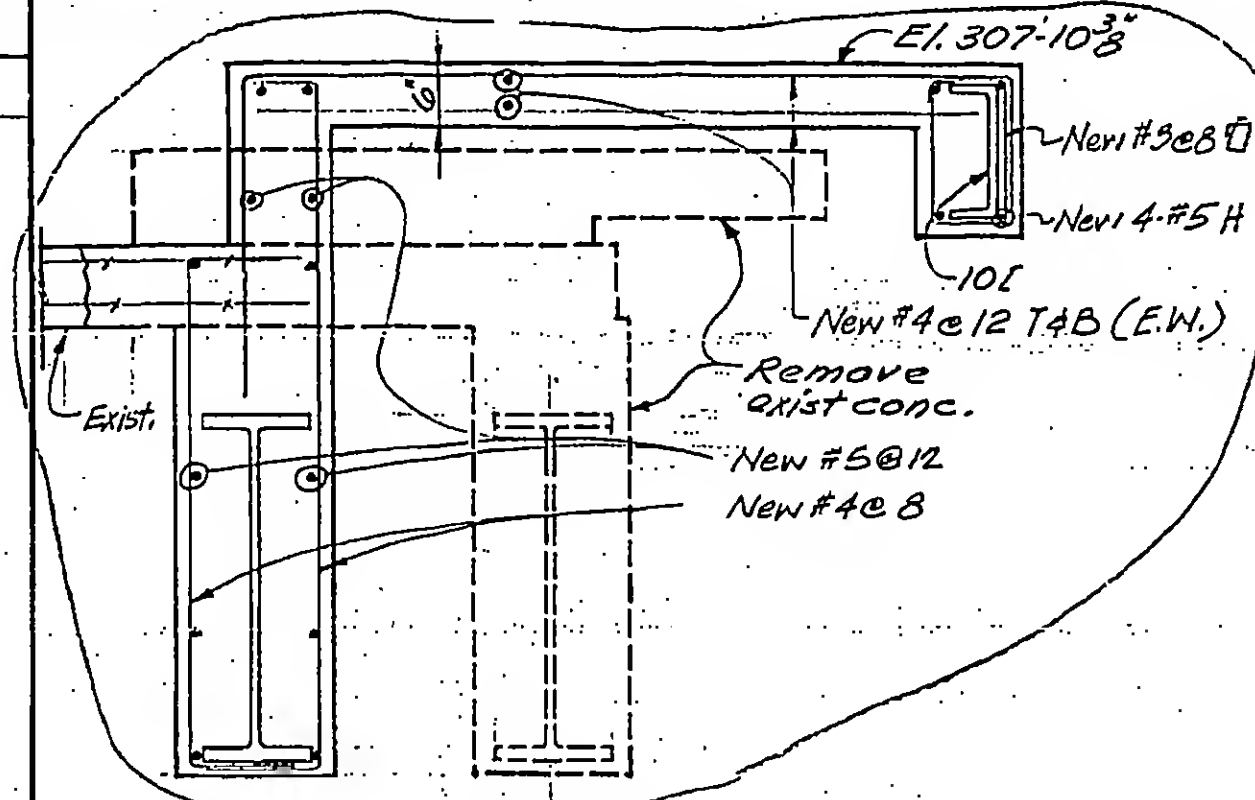
PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS - EL. 310 - ZONE K3

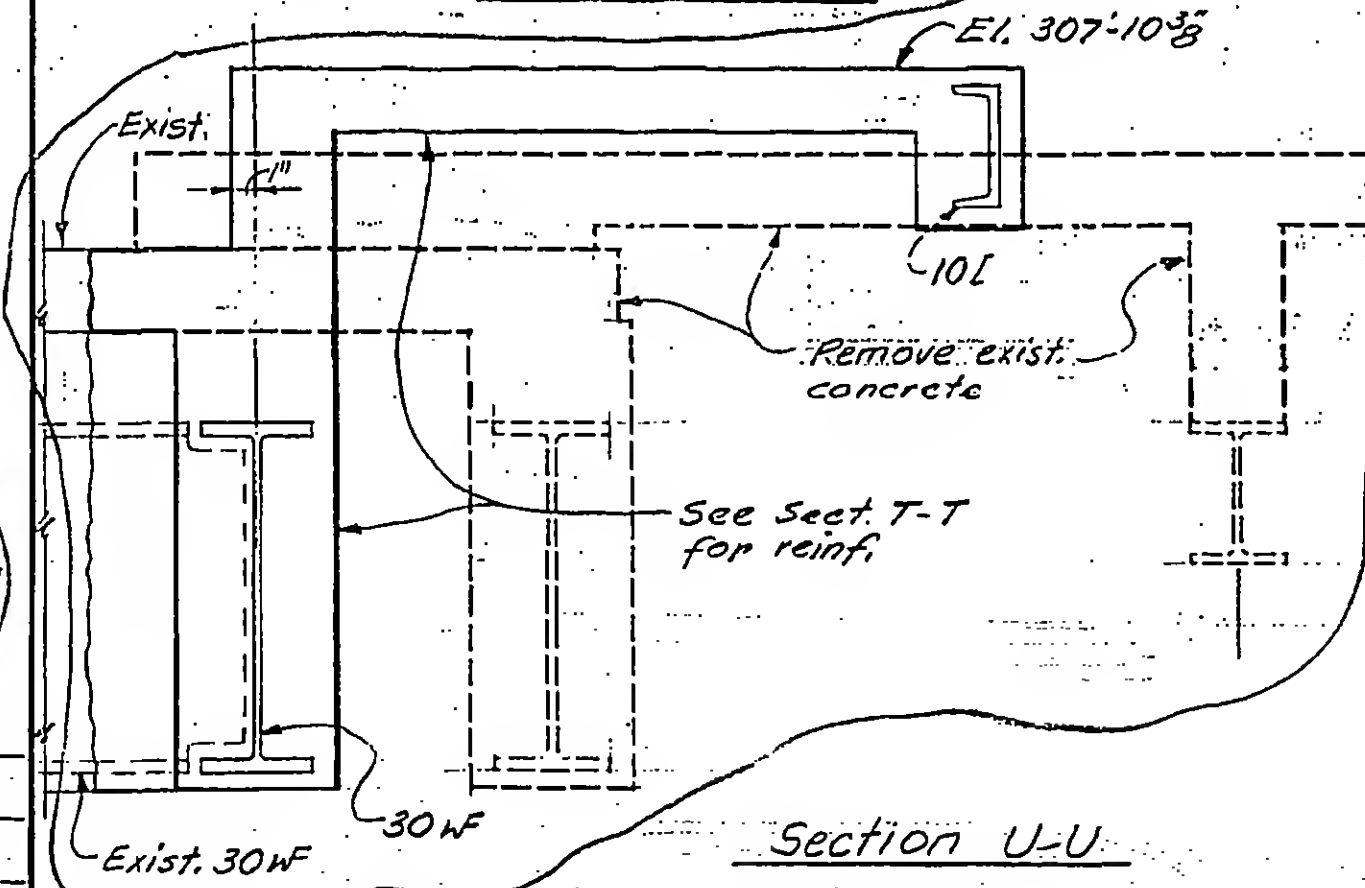
DATE 3-10-72

REVISIONS

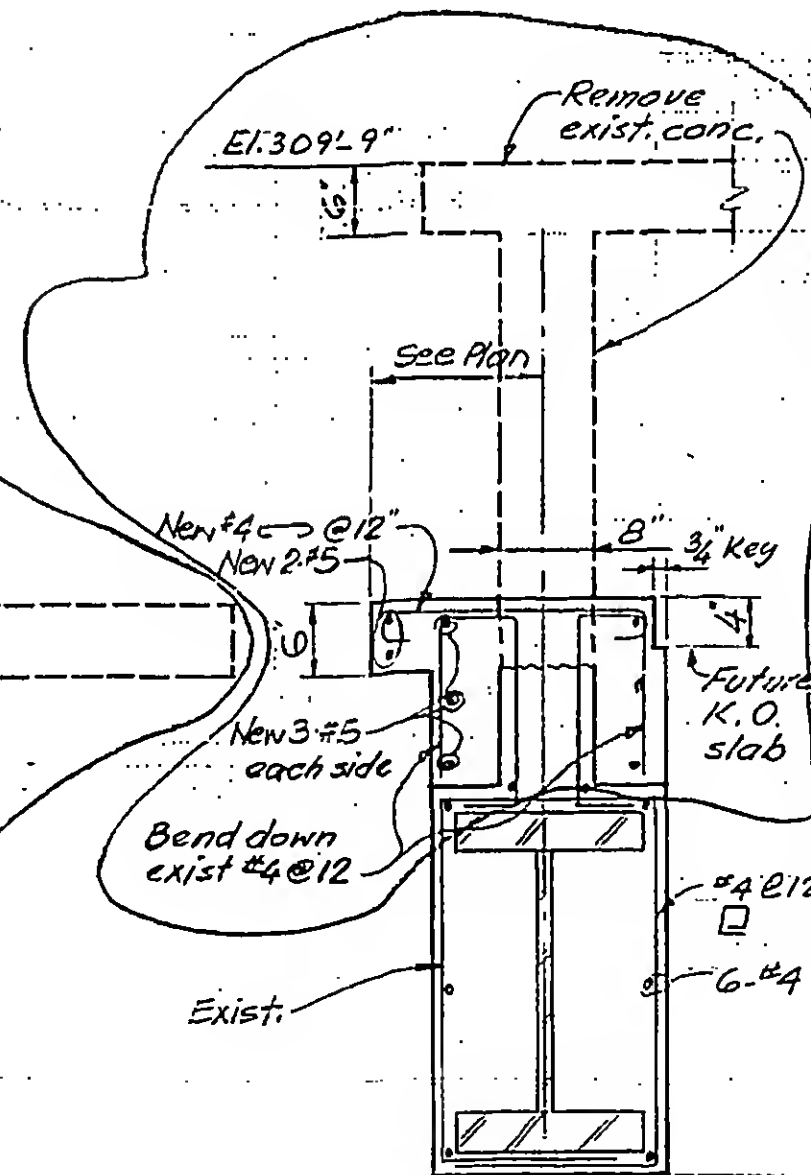
6-15-73



Section T-T



Section U-U



Section W-W



DESIGNED K. Chiang

DRAWN A. Franqui

REVIEWED WAP

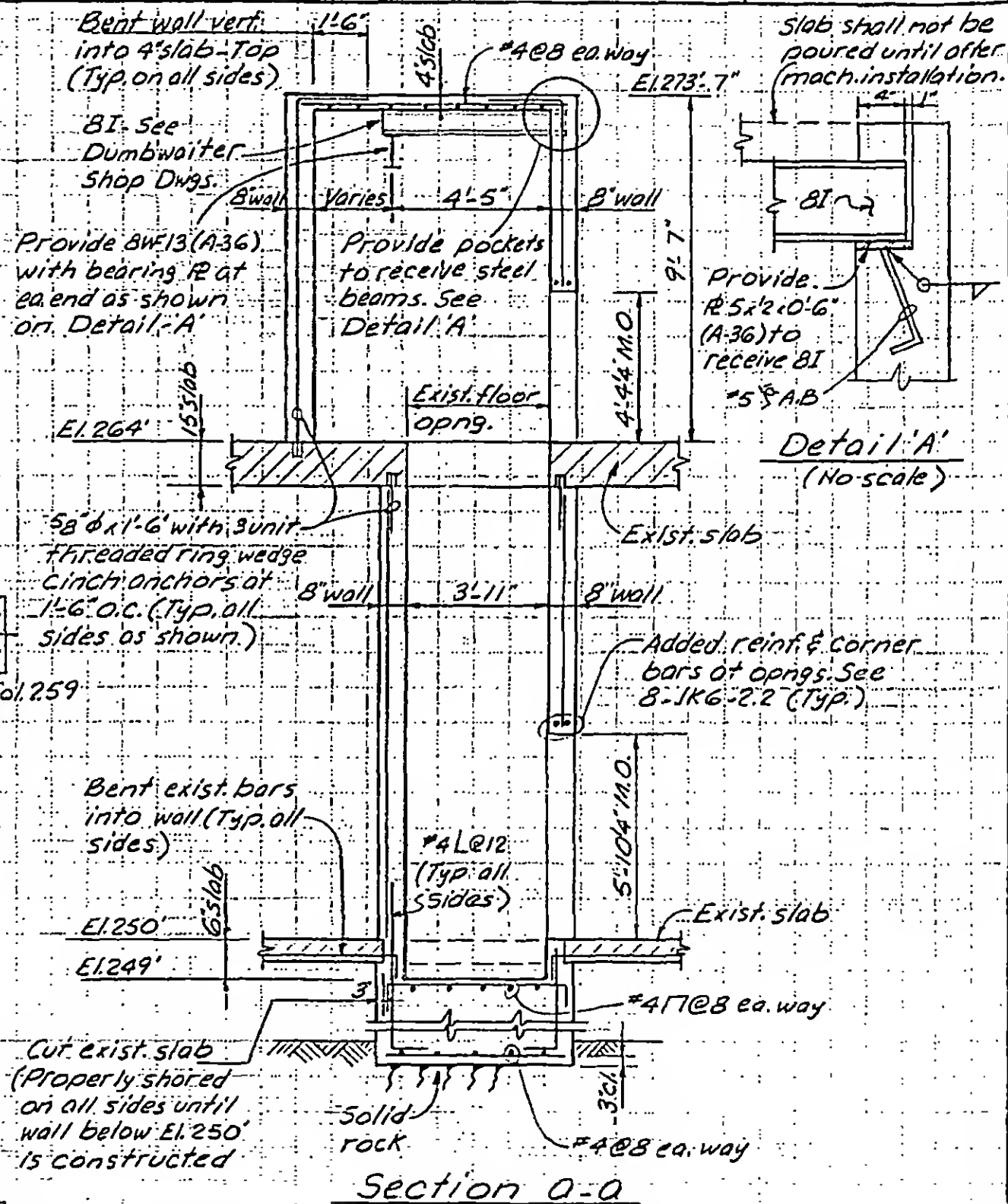
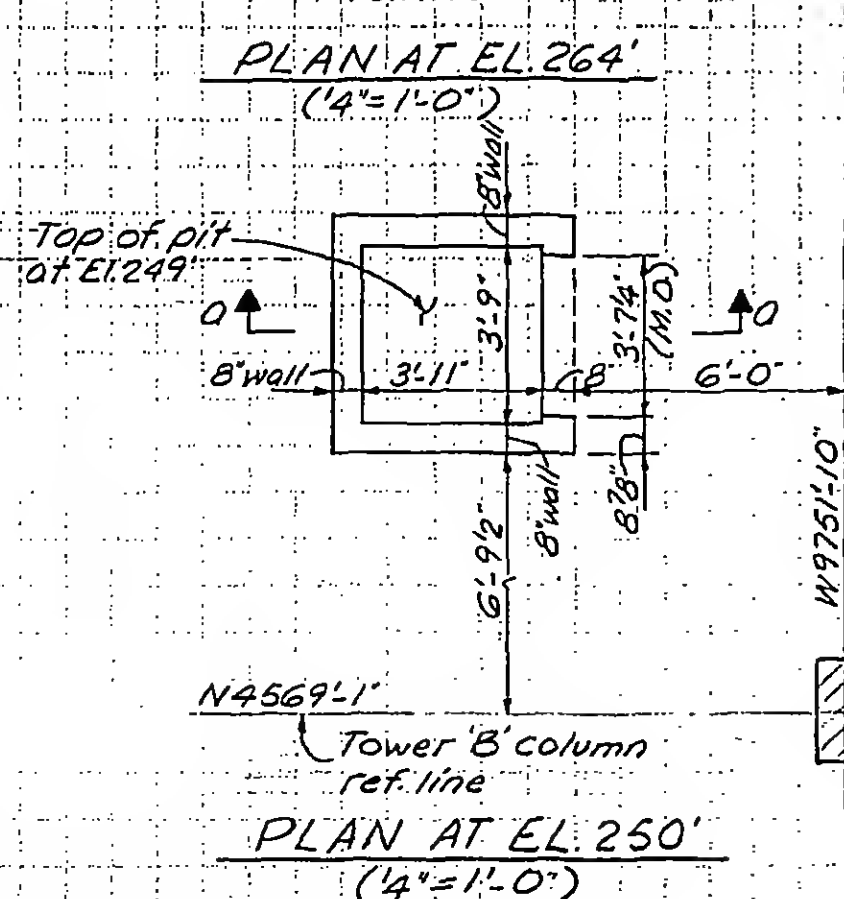
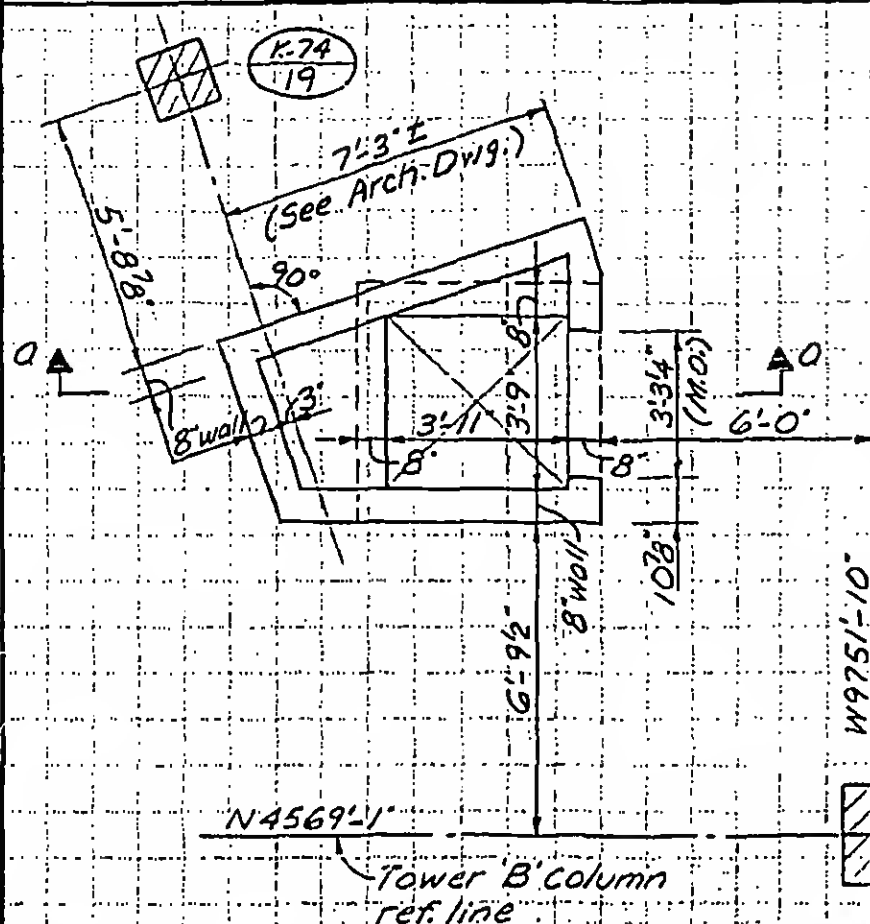
8-JK8-59.7

PROJECT THE WORLD TRADE CENTER

TITLE DUMBWAITER SHAFT

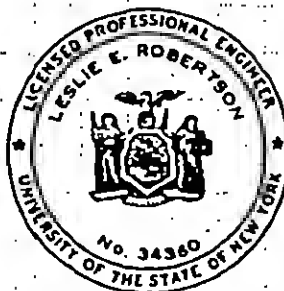
DATE 2-17-71

REVISIONS



Notes:

1. See Dumbwaiter Shop Dwg's. for size & location of wall opngs. not shown.
2. See 8-JKG-2.2 for typical wall reinforcements.

$$8 \times 8 = 60$$


DESIGNED
E. LIU

DRAWN
A. FRANQUI

REVIEWED

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

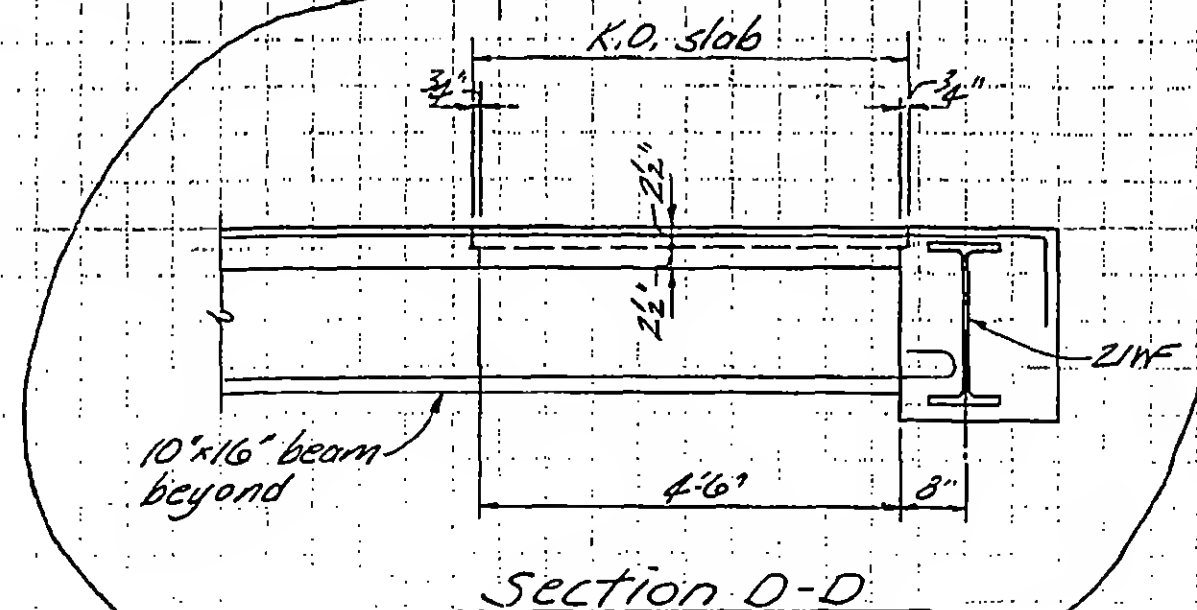
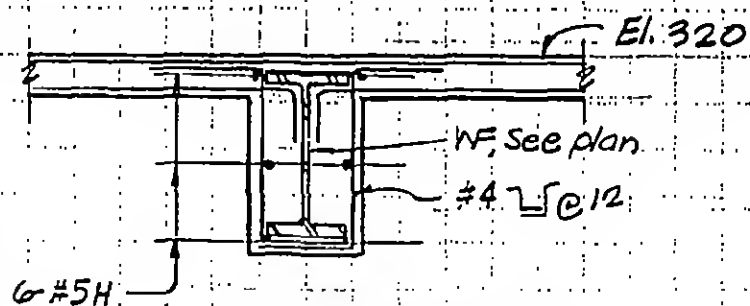
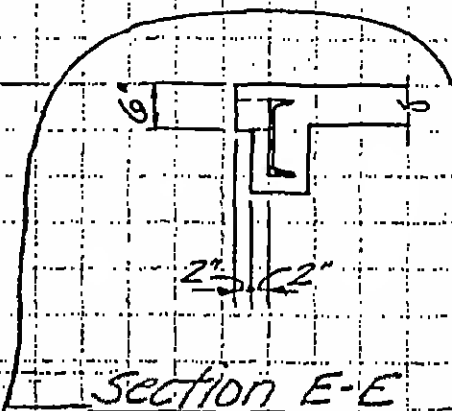
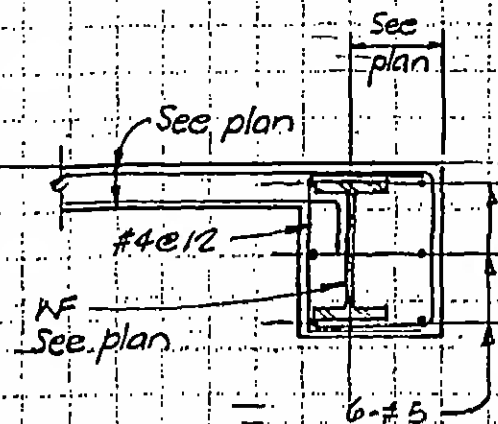
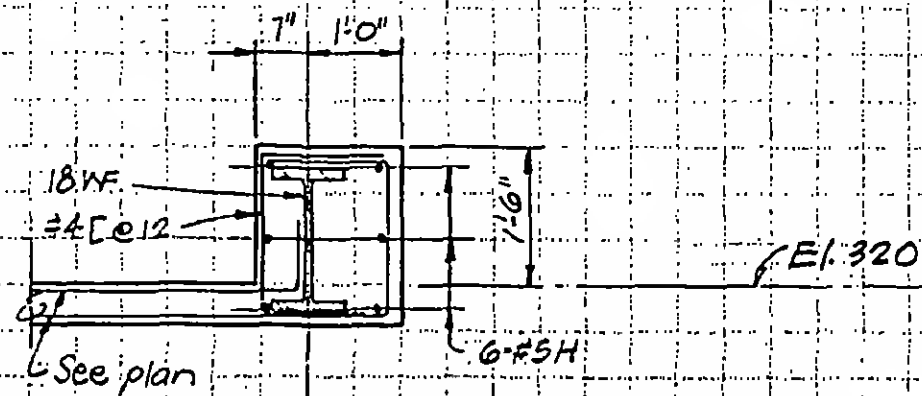
SECTIONS - ELEVATION 320

DATE

1-15-72

REVISIONS

10/10/72



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DRAWN P.H. Ozell

REVIEWED

W. Brewer

B-JKB-61

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS-PARKING ELEVATOR-ZONE K3-EL.294

DATE 12-28-71

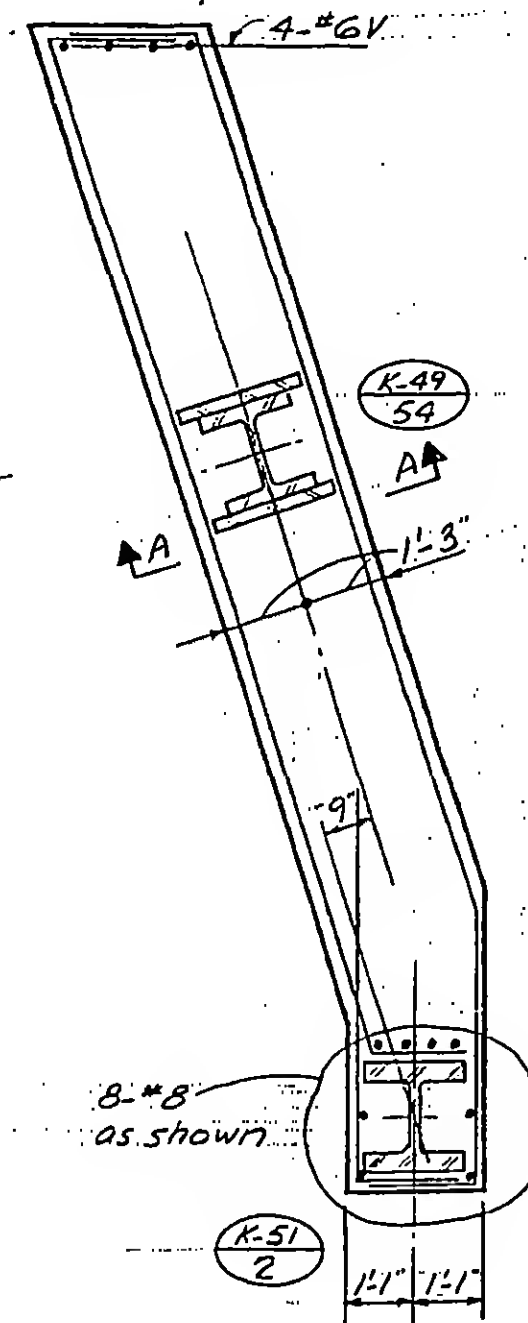
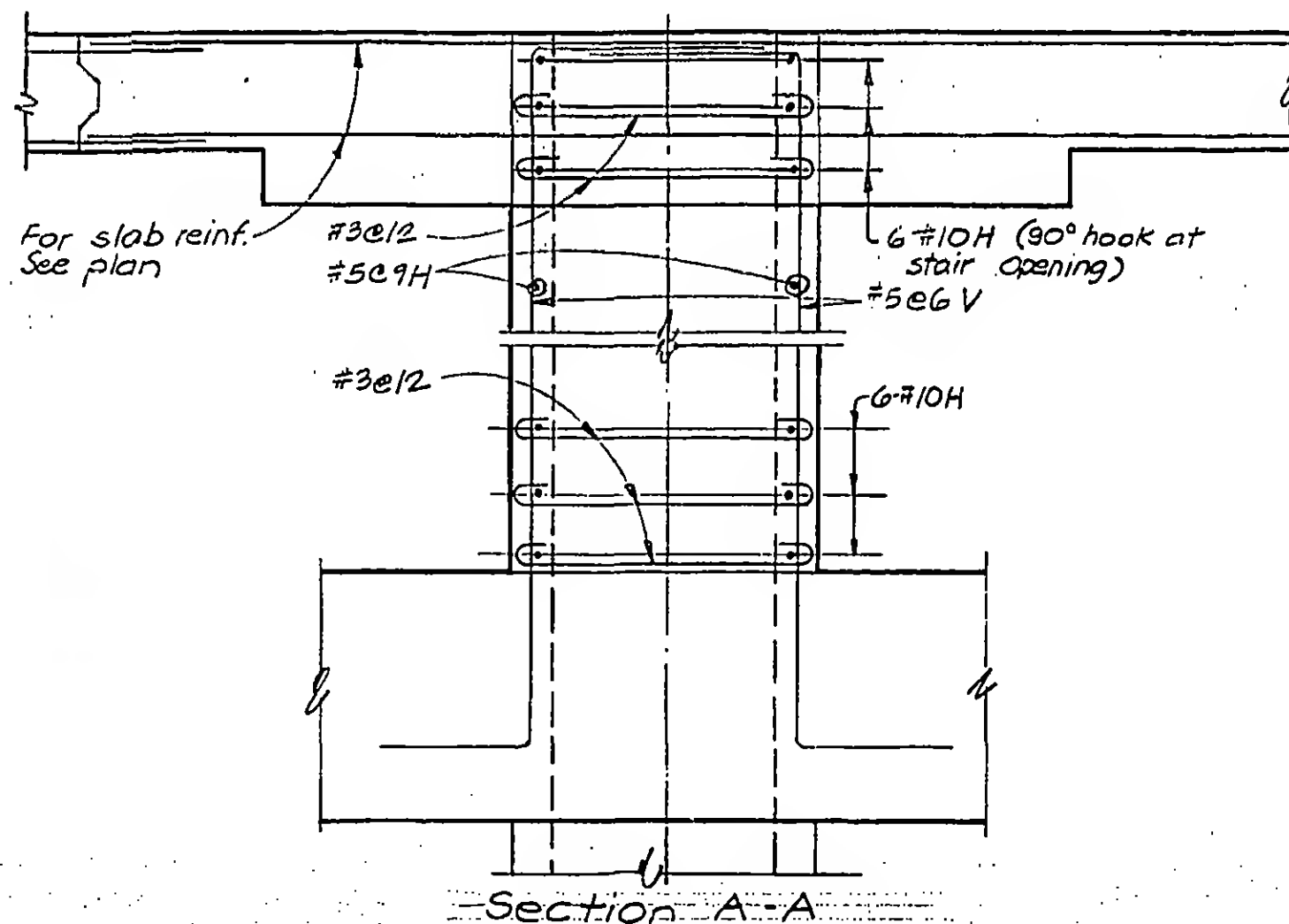
REVISIONS

1-15-72

Gen. Rev.

3-10-72

Gen. Rev.



Detail A

8-JK8-62.1

DESIGNED
K. ChiangDRAWN
A. FranquiREVIEWED
W. CB

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS - PARKING ELEVATOR - ZONE K3-EL.284'

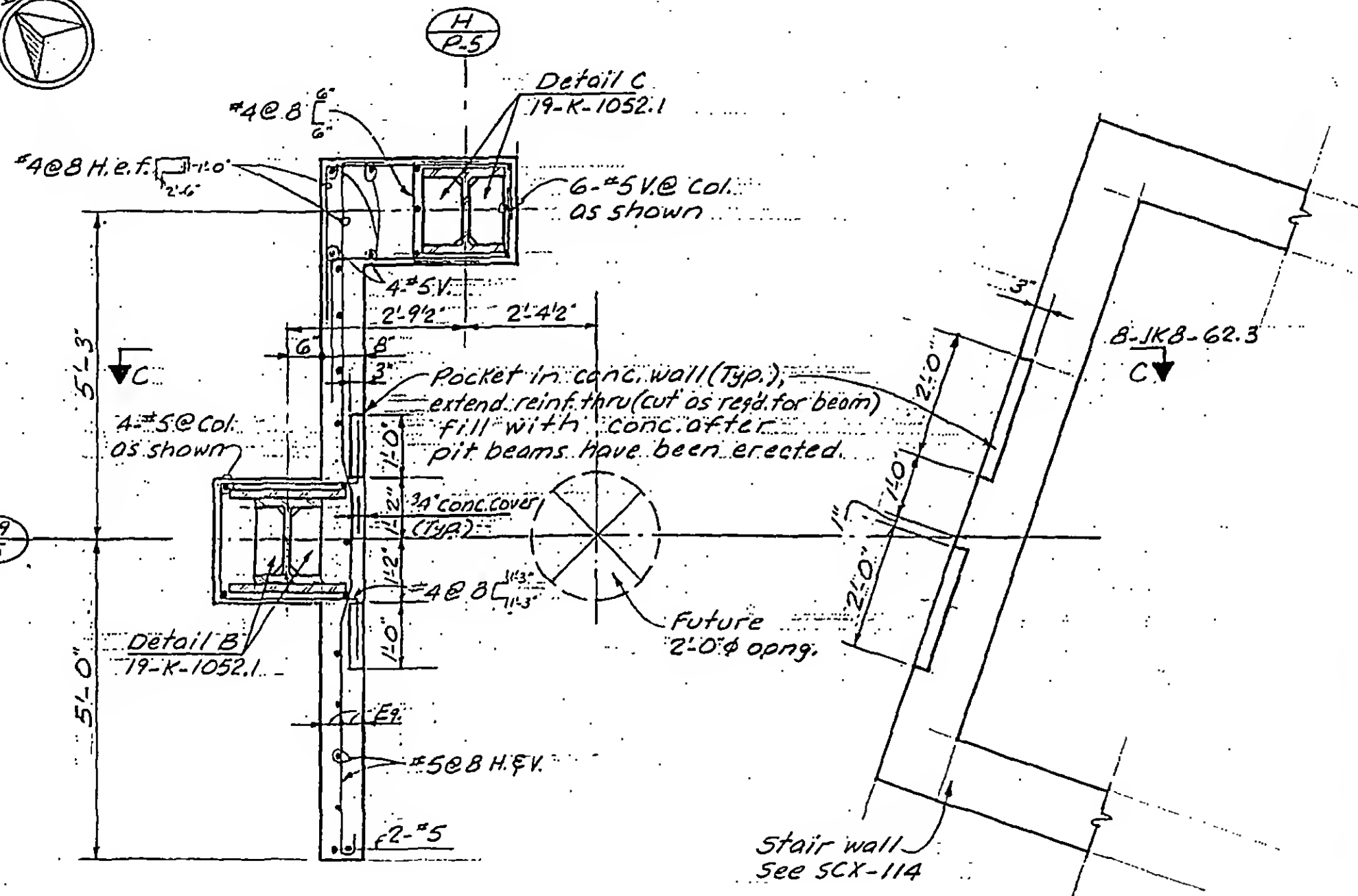
DATE 1-15-72

REVISIONS

3-10-72

Complete Rev.

NORTH



Detail B

DESIGNED
K. ChiangDRAWN
A. FromquiREVIEWED
C. O. B.

B-JKB-62.2

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

SECTIONS-PARKING ELEVATOR-ZONE K3-EL.294

DATE

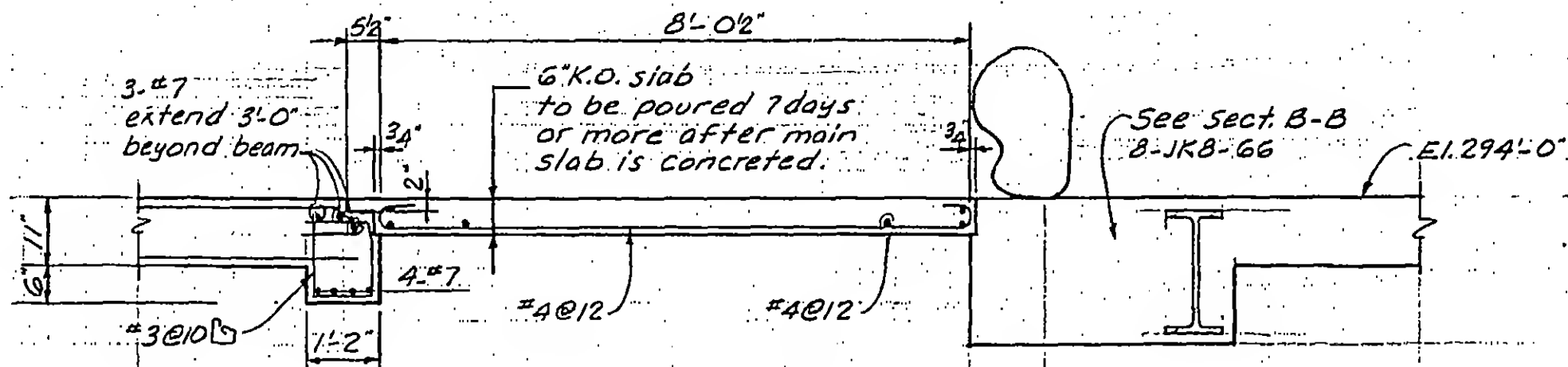
1-15-72

REVISIONS

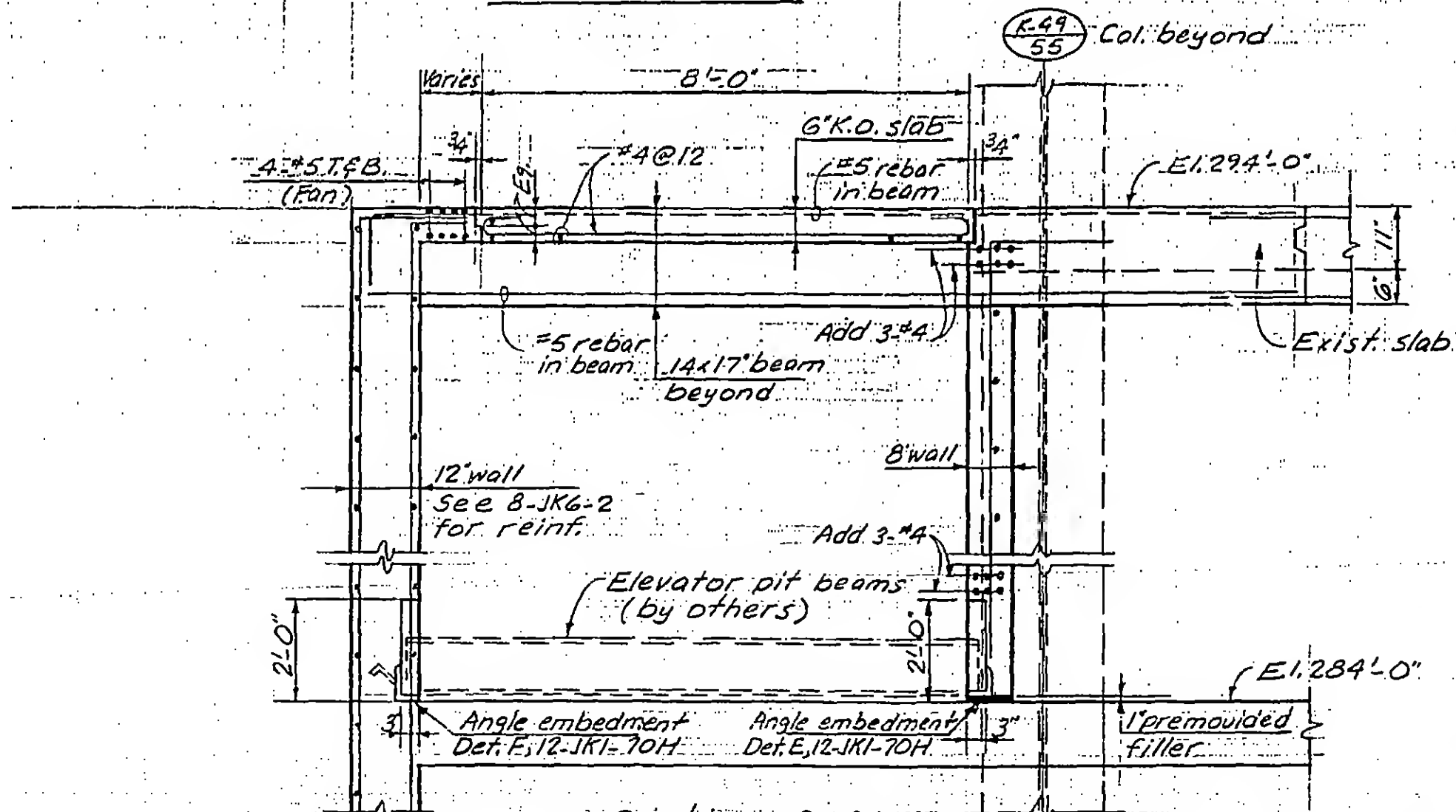
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Complete Rev.

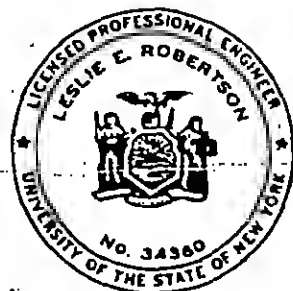
3-15-73



Section B-B



Section C-C

DESIGNED
K. ChiangDRAWN
A. FrangouREVIEWED
WAB

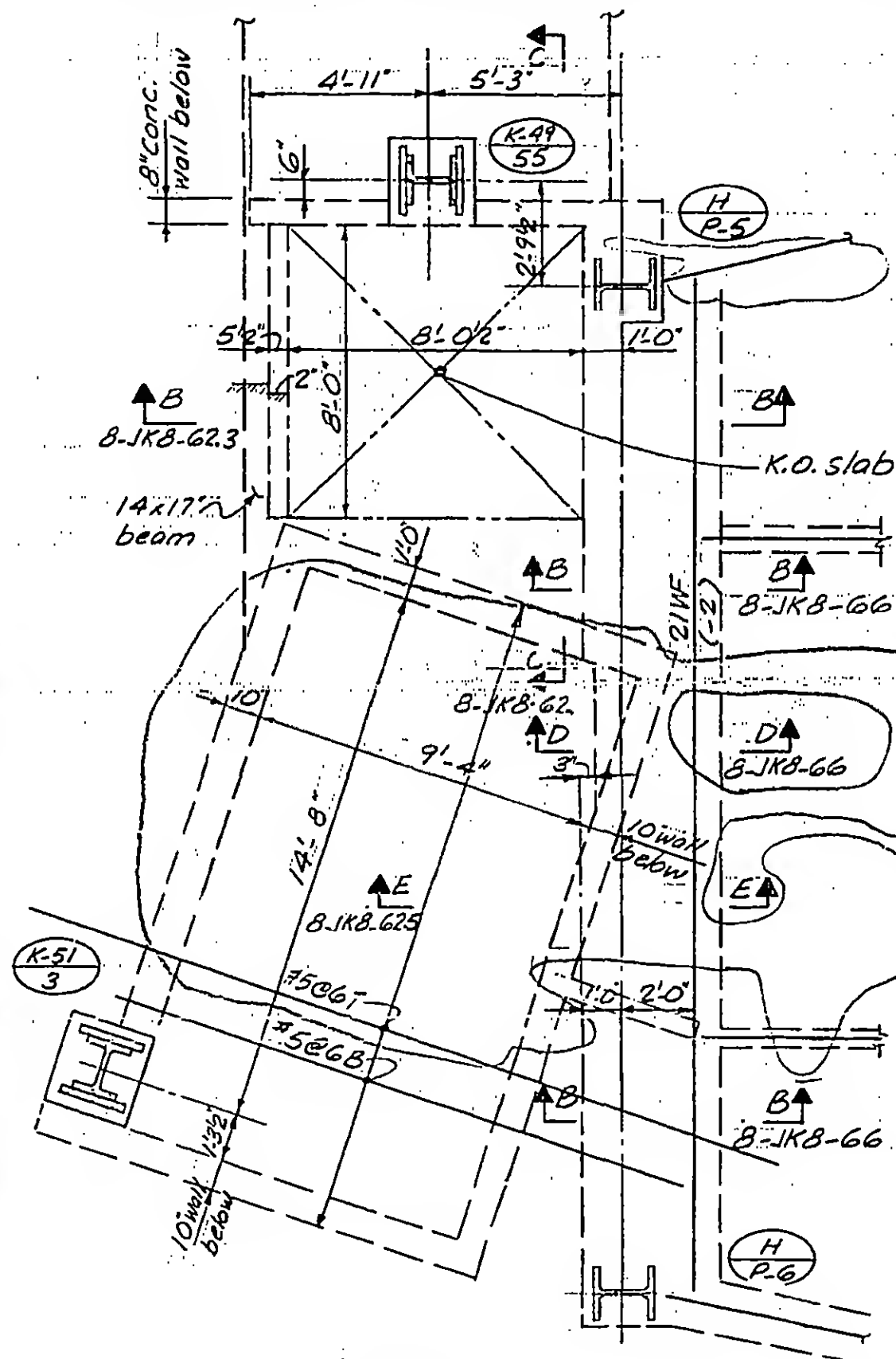
8-JK8-62.3

Structural & Civil Engineers

TITLE SECTIONS-PARKING ELEVATOR-ZONE K-3-EL.294

DATE 3-10-72

3-15-73



Notes:

1. This detail plan is supplementary to Divg. SCK-87 and/or SCK-88, reinf. shown here are in addition to those in the above said drawings.



DESIGNED
K. Chiang.

DRAWN
A. Frangul

REVIEWED *Wap*

Detail C (Plan)

8-JK8-62.4

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

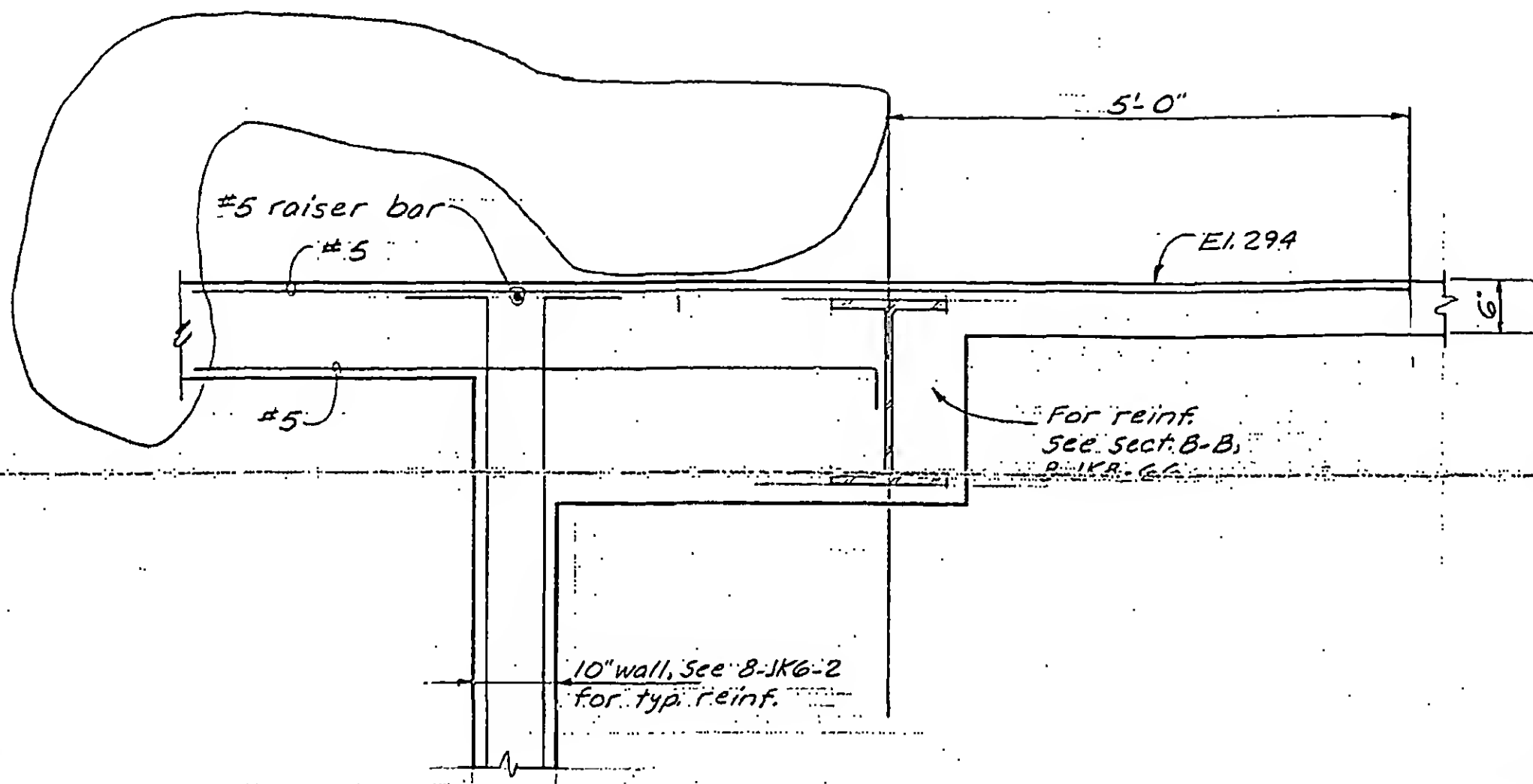
PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS - PARKING ELEVATOR - ZONE K-3 - EL. 294

DATE 3-10-72

REVISIONS

3-15-73

Section E-EDESIGNED
K. ChiangDRAWN
A. FranquiREVIEWED
[Signature]

8-JK8-62.5

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

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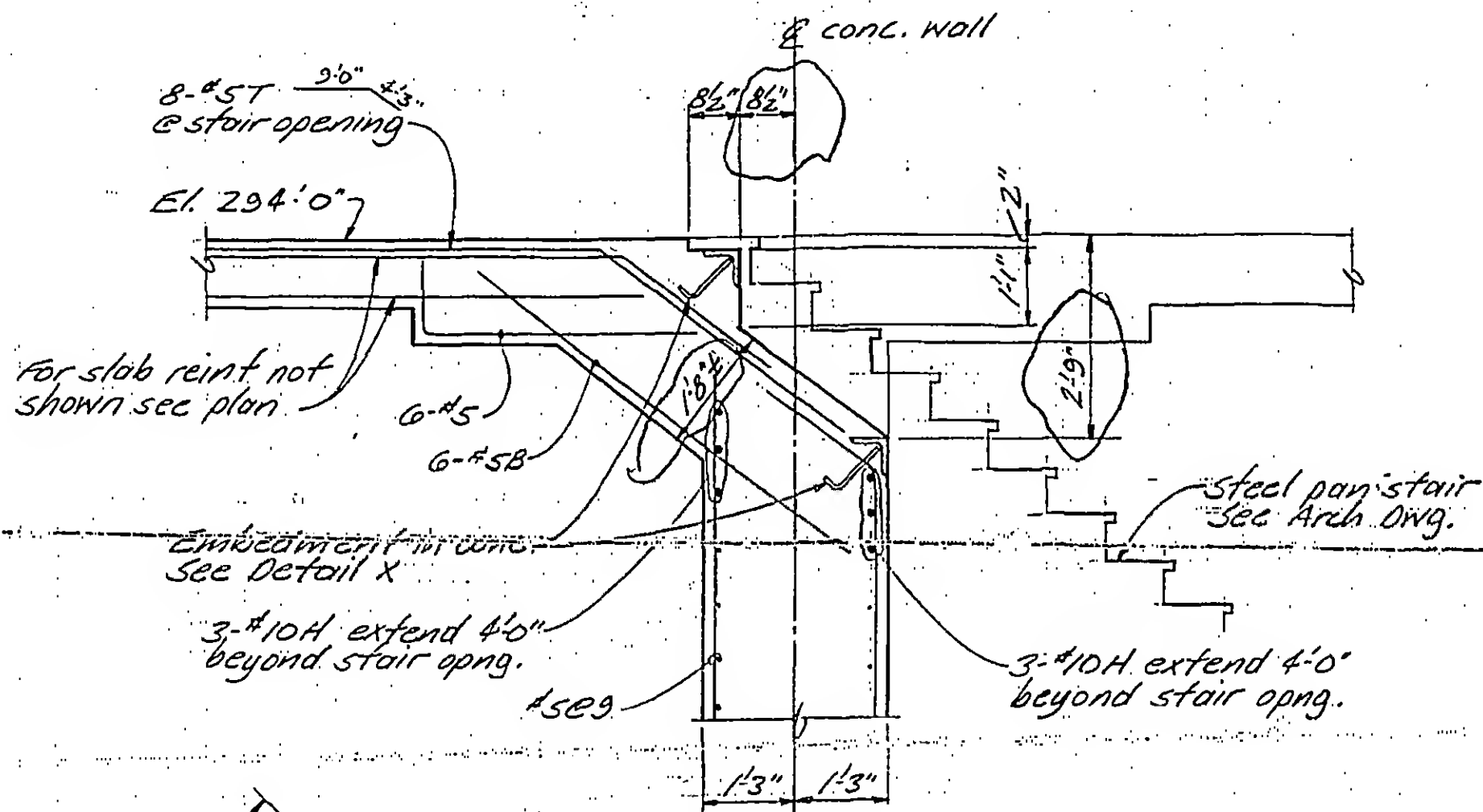
PROJECT THE WORLD TRADE CENTER

TITLE SECTION AT STAIR K-3, EL. 294, ZONE K-3

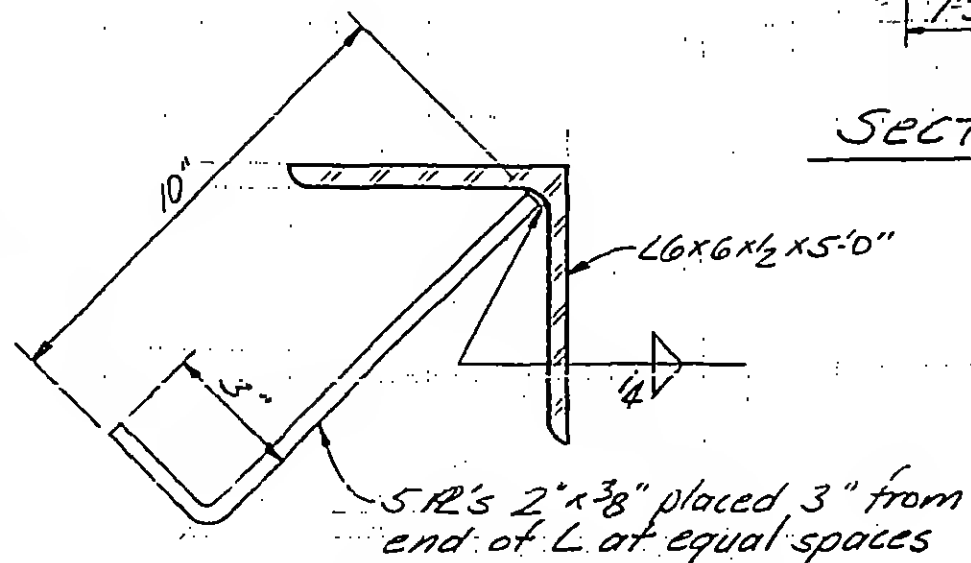
DATE 3-9-73

REVISIONS

4/18/73



Section G-G



Detail X



DESIGNED

KC

DRAWN

JA ALF

REVIEWED

8-JK8-62.6

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

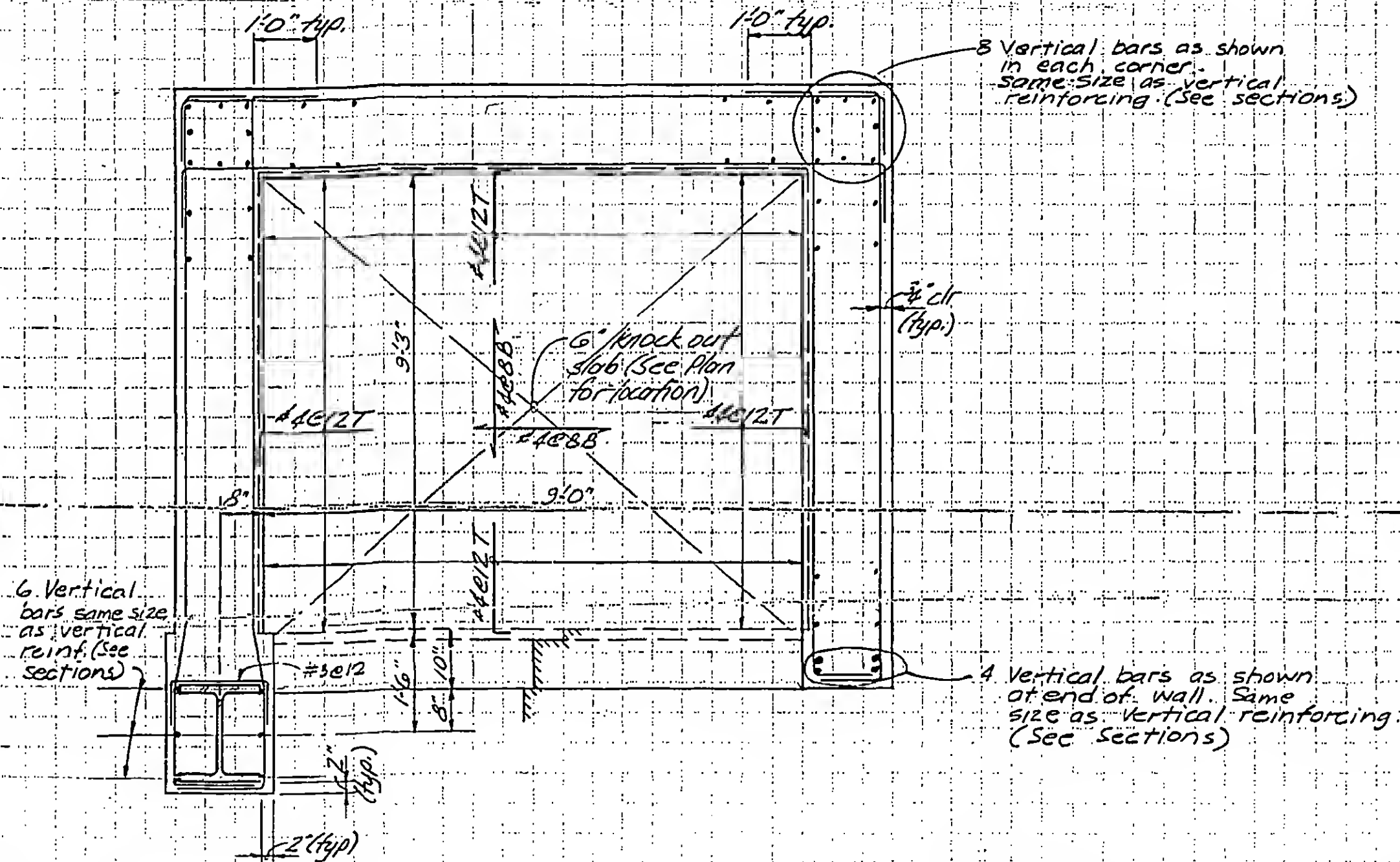
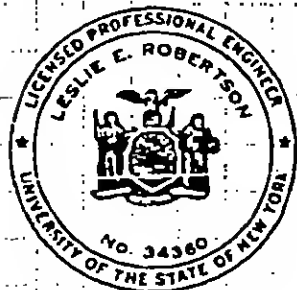
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE TYPICAL PLACEMENT OF WALL & S.LAB REINF.

DATE 12-17-71

REVISIONS

Detail A

DESIGNED

DRAWN

REVIEWED

B-JKB-63.1

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

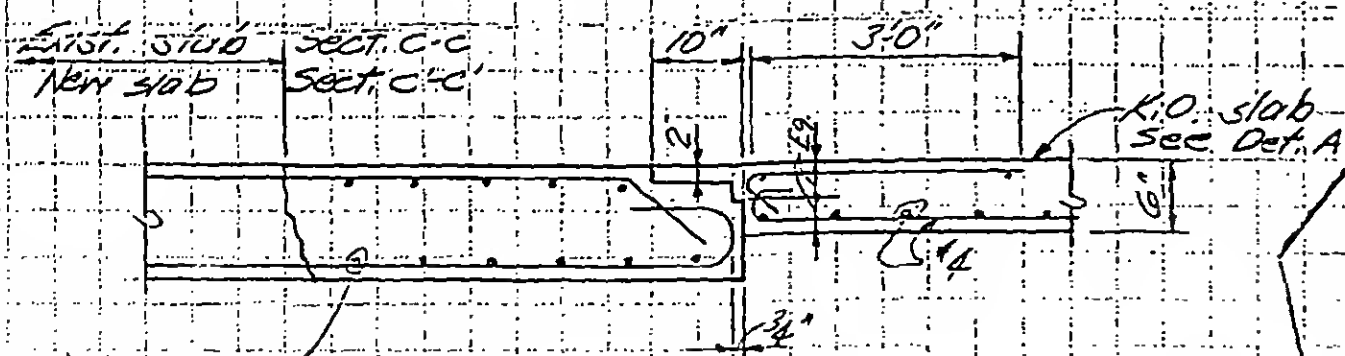
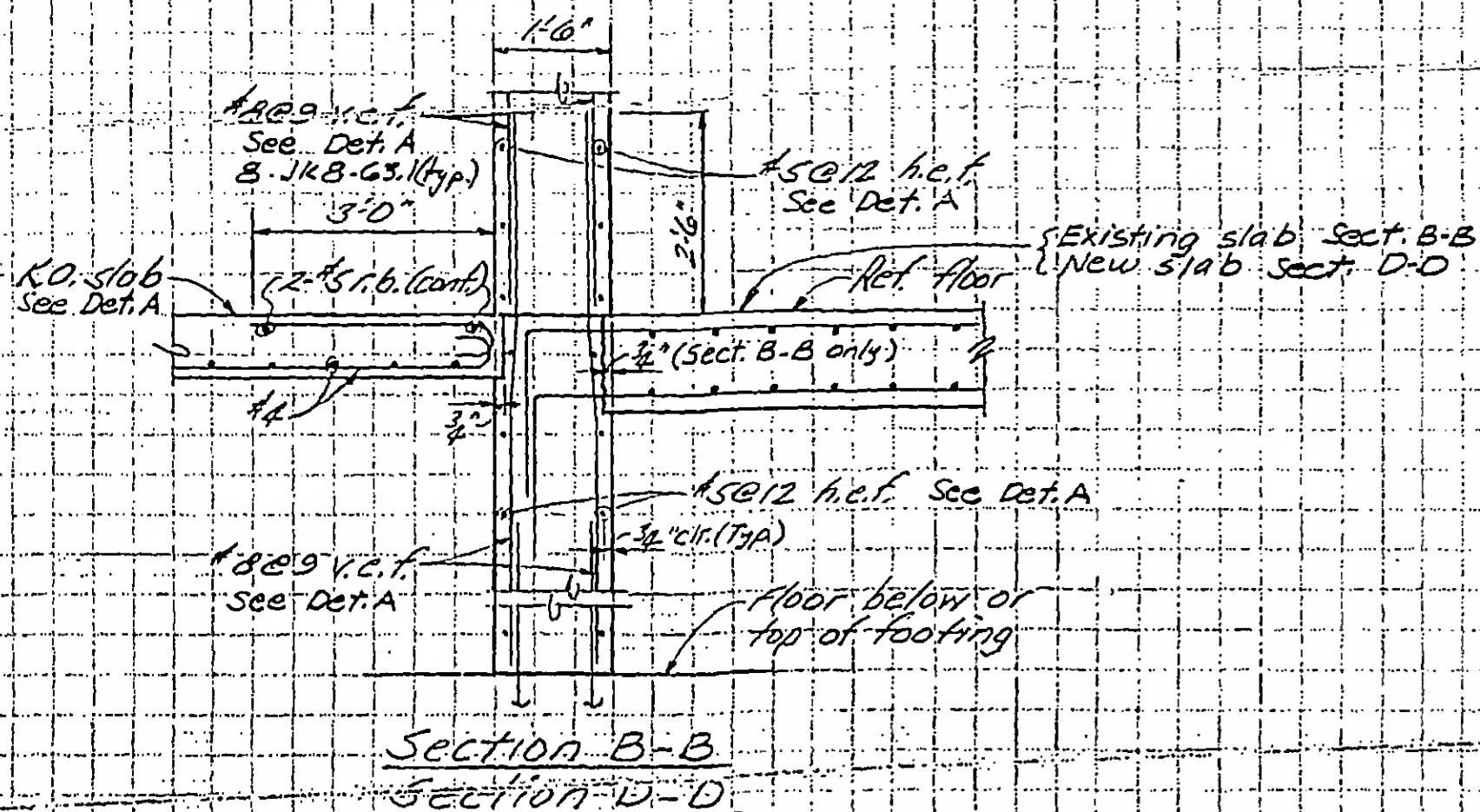
PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT HOTEL FREIGHT ELEVATOR WALLS

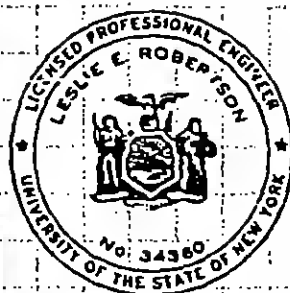
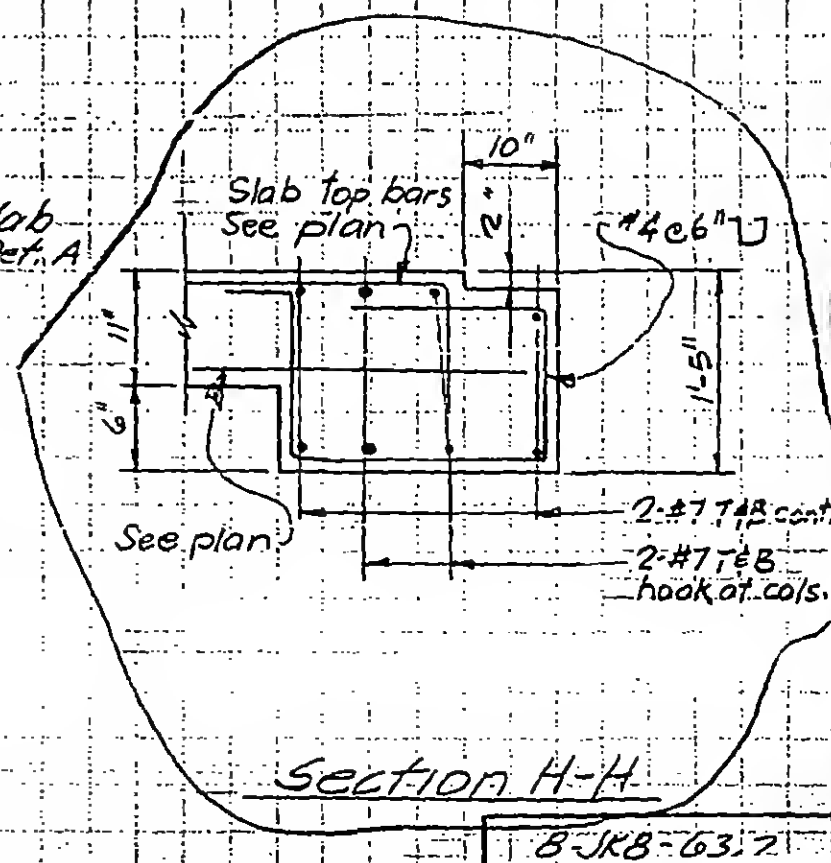
DATE 12-17-71

REVISIONS

1-15-72



Existing rebar. If it is necessary to cut any bar in this area in order to construct the new wall, splice the bar with same size rebar of 3'-0" min. length. (Section C-C only)



DESIGNED

DRAWN

REVIEWED

D. B. Brown

Section C-C

Section C'-C' (Sim.)

B-JKB-63.2

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE	PLACEMENT OF WALL REINFORCEMENT AT EL. 264'-0"	DATE	12-17-71
-------	--	------	----------

DATE 12-17-71

REVISIONS

12-1-72

4 vert. bars as shown
Same size as vert. rent
(see sections)

4 vert. bars
same size as vert
reinf (See Section)

Remove existing dowels
flush with top of existing
slab these areas

8 vertical bars as shown, same size as vert. reinf. (See Section)

- 4 vert. bars same
signs vert. reinf. (Reinforcements)

See Det B
8-JK8-64.1

Detail B
(Plan)



DESIGNED

Kč

RAW

J. Gracius

NEW

8-1K2-722

SKILLING, HELLE CHRISTIANSEN ROBERTSON

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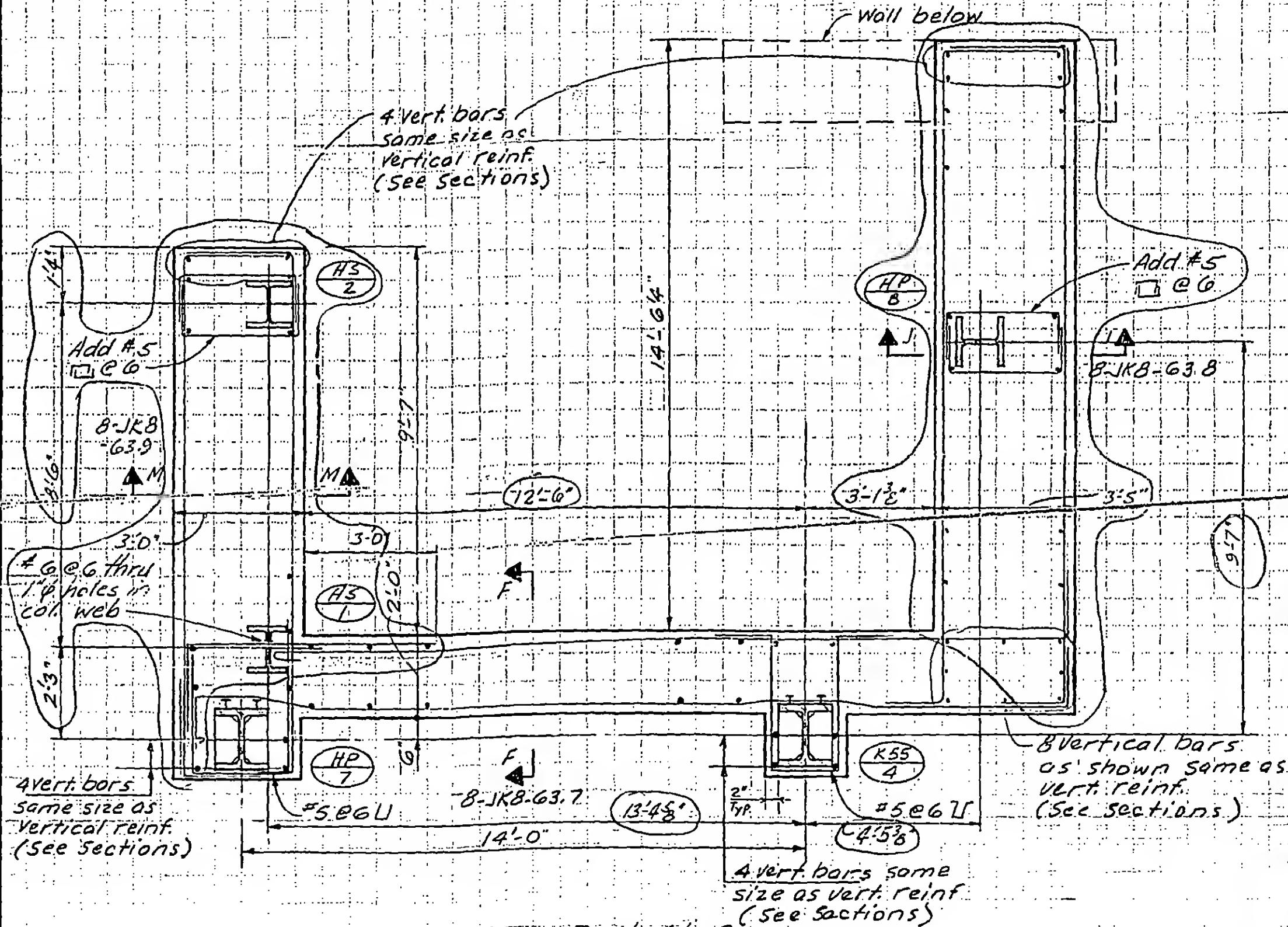
PROJECT THE WORLD TRADE CENTER

TITLE PLACEMENT OF WALL REINF. AT EL. 274

DATE 12-17-71

REVISIONS

12-1-72



Detail C
(Plan)

8-JK8-63.4



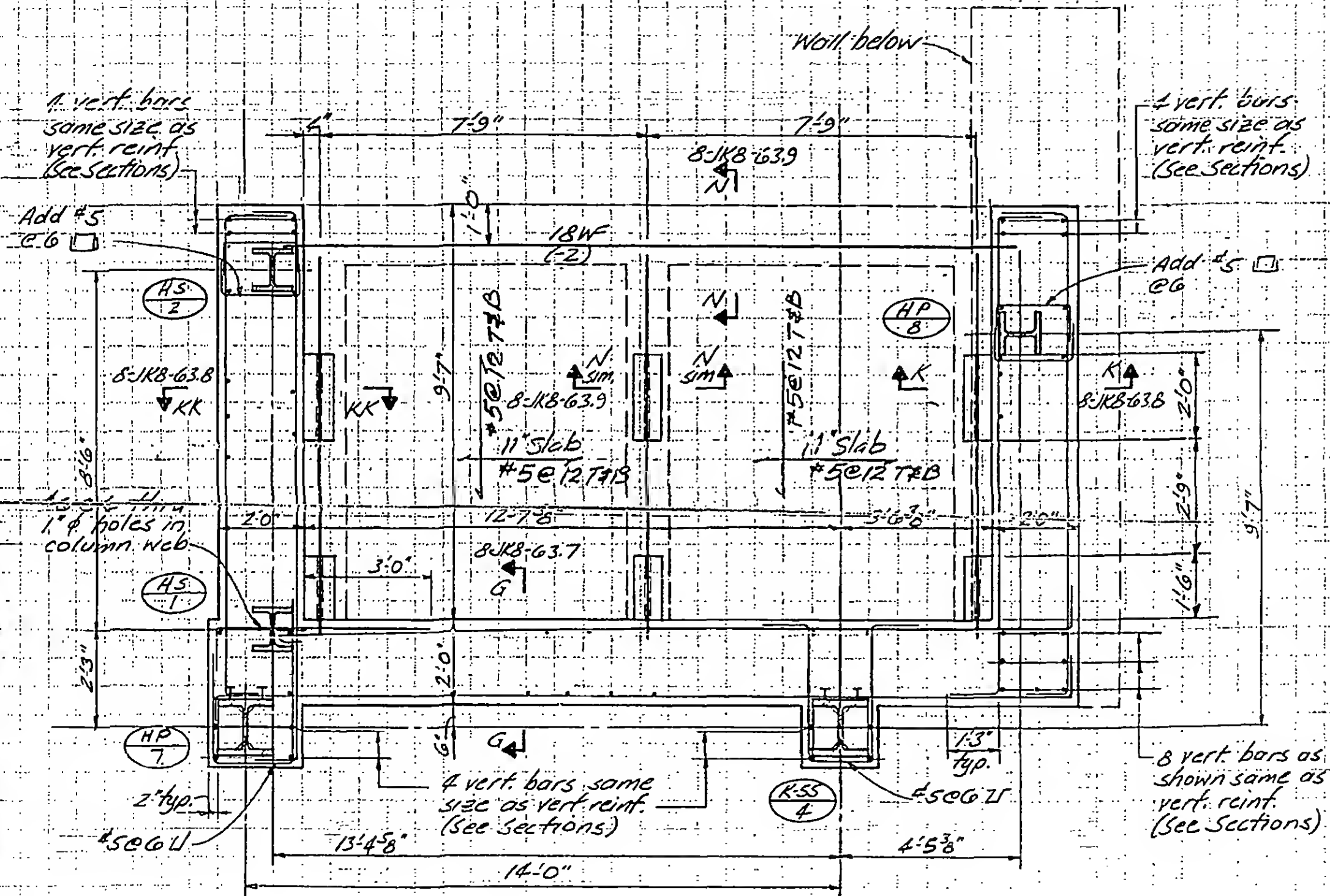
DESIGNED
K. CHIANG

DRAWN
A. FRANQUI

REVIEWED

REVISIONS

12-1-72



Detail D

8-JK8-63.5

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

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PROJECT THE WORLD TRADE CENTER

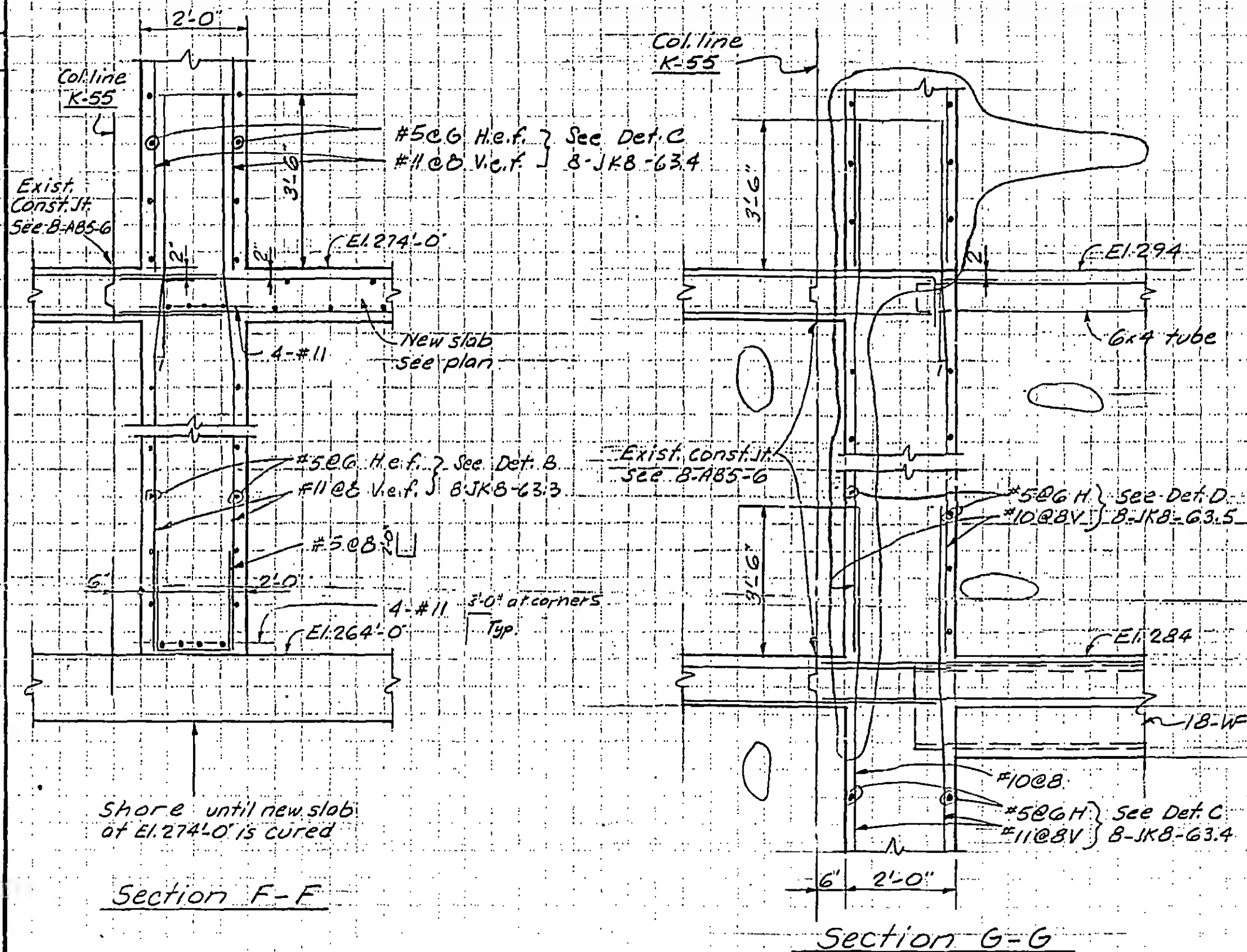
TITLE SECTIONS AT HOTEL FREIGHT ELEVATOR WALLS

DATE 12-17-71

REVISIONS

1-15-72

12-1-72

DESIGNED
K. CHIANGDRAWN
A. FRANQUIREVIEWED
W. Brewer

8-JKB-63.7

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

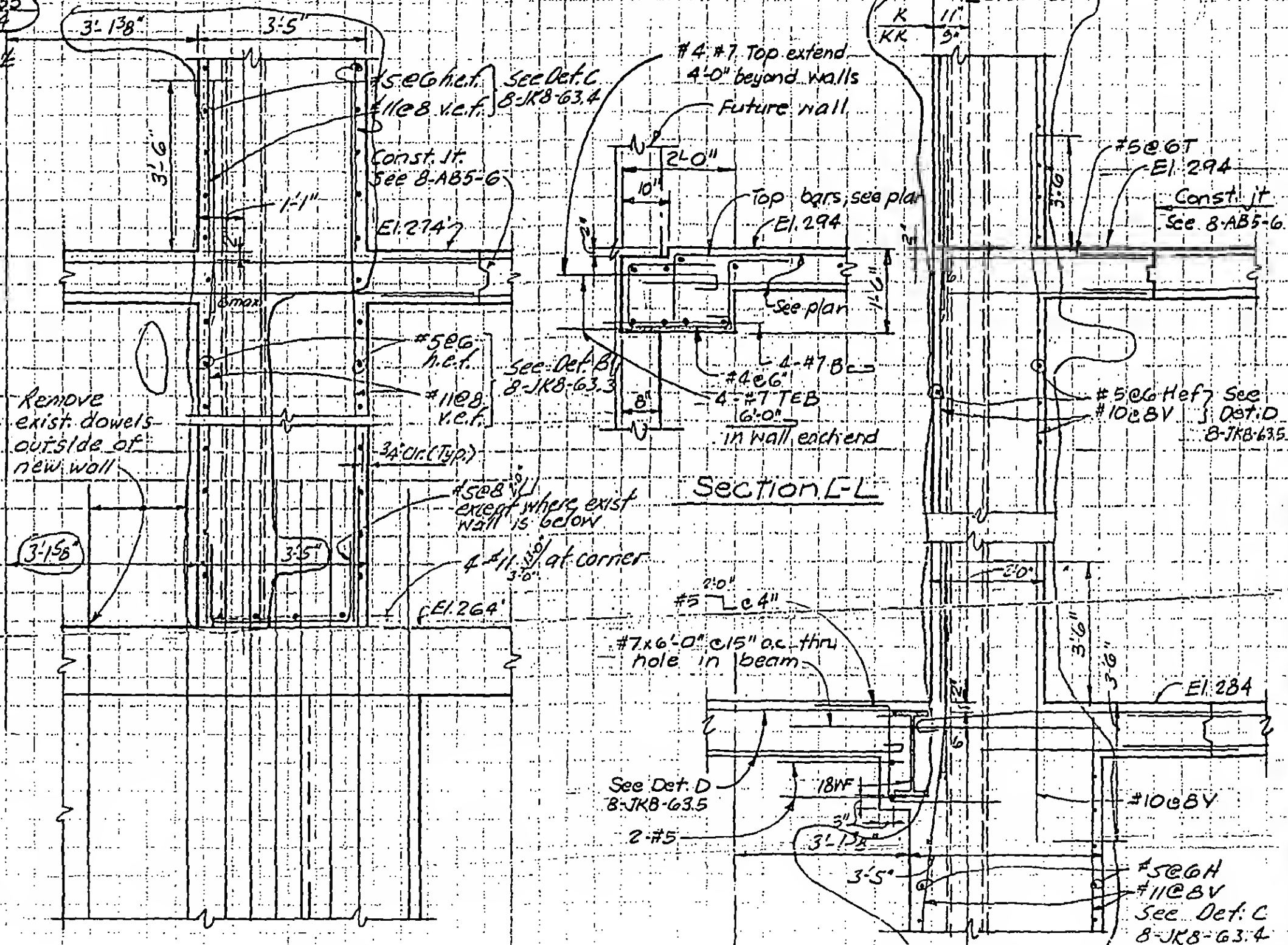
TITLE SECTIONS AT HOTEL FREIGHT ELEVATOR WALLS

DATE 12-17-71

REVISIONS

1-15-72

12-1-72

K55
4

Section J-J

Section K-K
Section KK-KK as notedDESIGNED
K. CHIANGDRAWN
A. FRANQUIREVIEWED
M. Brewer

B-1KR-C20

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

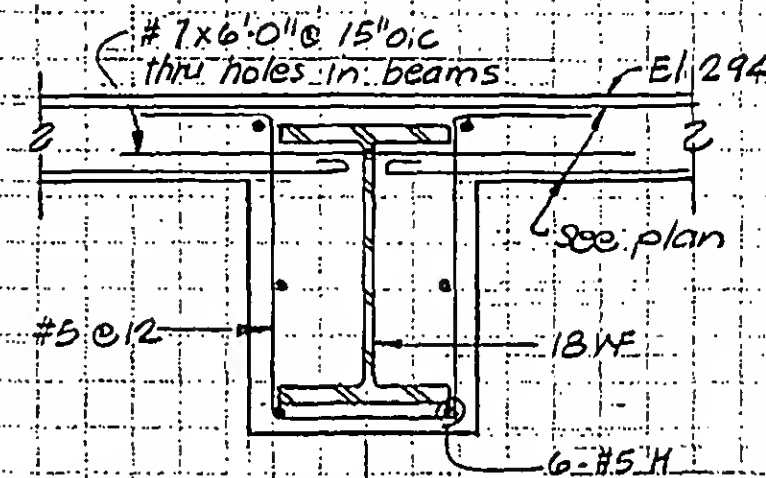
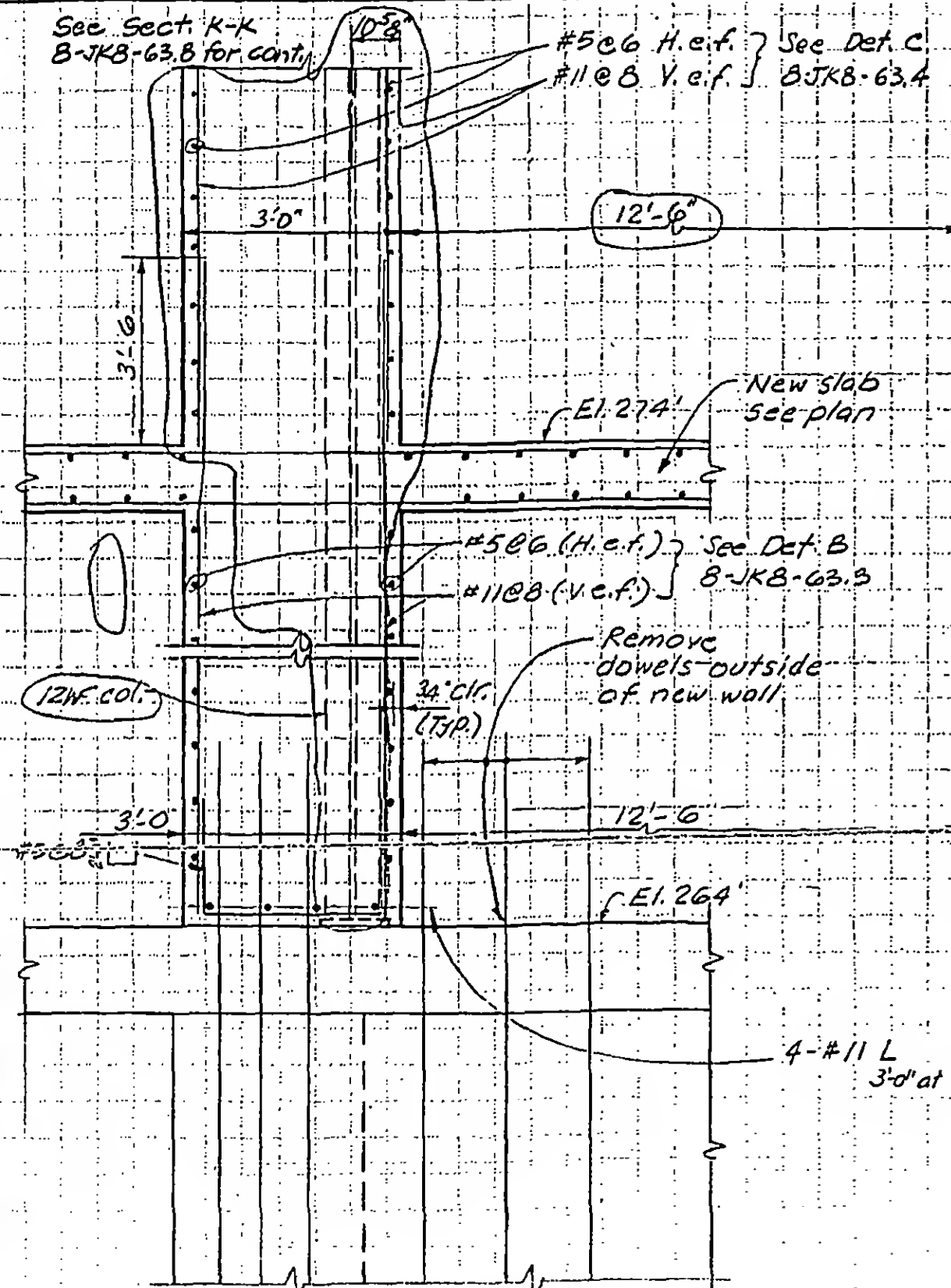
TITLE SECTIONS AT HOTEL FREIGHT ELEVATOR WALLS

DATE 12-17-71

REVISIONS

1-15-72

12-1-72

See Sect. K-K
B-JK8-63.8 for cont.#5 @ 6" H.e.f. } See Det. C
#11 @ 8" V.e.f. } B-JK8-63.4

Section N-N

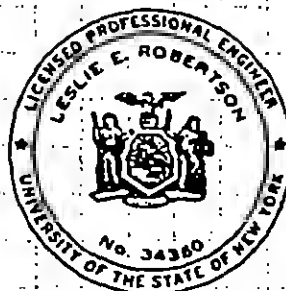
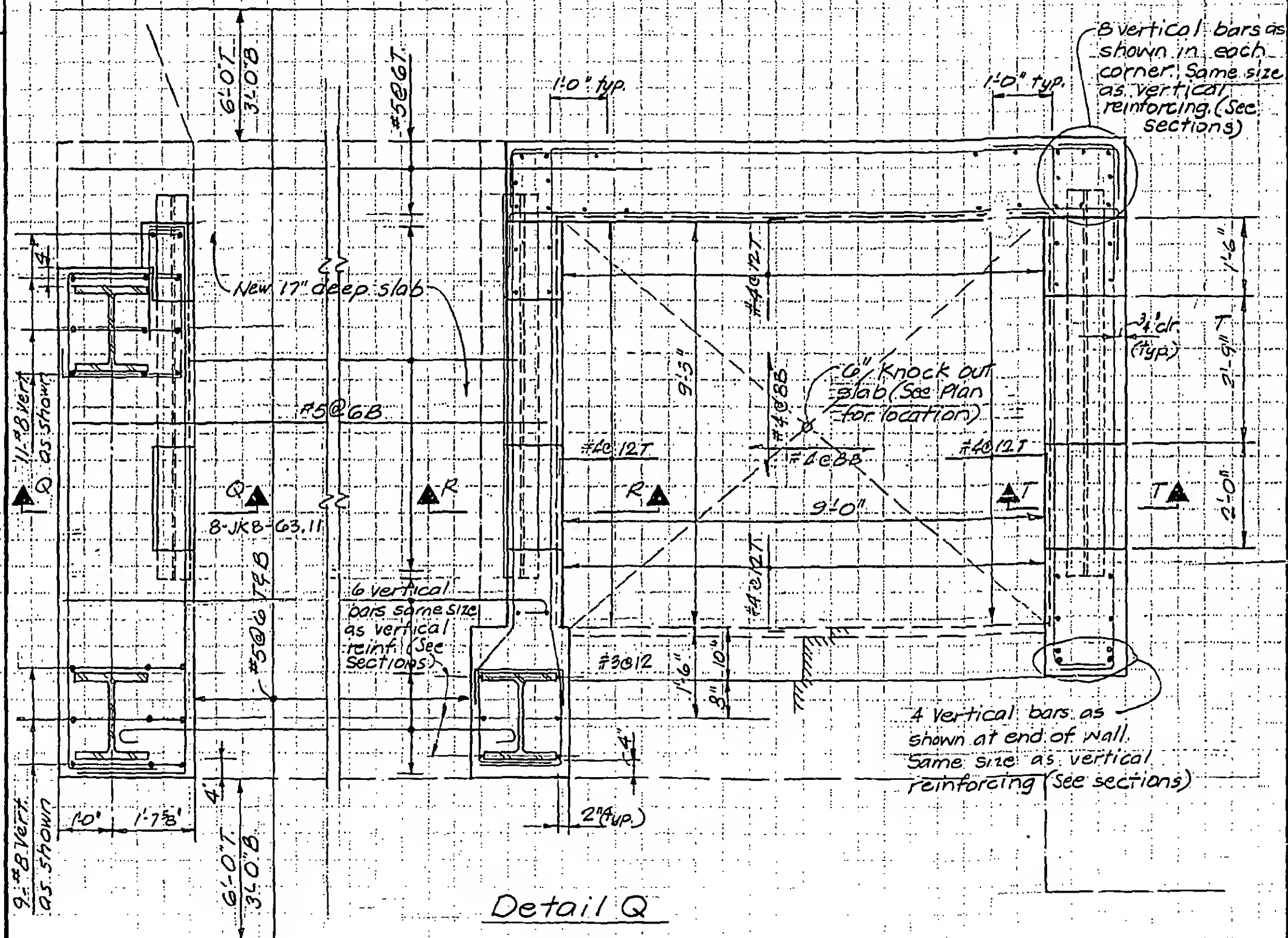
DESIGNED
K. CHIANGDRAWN
A. ERANQUIREVIEWED
J. Brewer

Section M-M

B-JK8-63.9

REVISIONS

12-1-72



□□□□□□

DRAWN
P.M. O'Neil

REVIEWED
W. Brewer

8-JK8-63.10

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

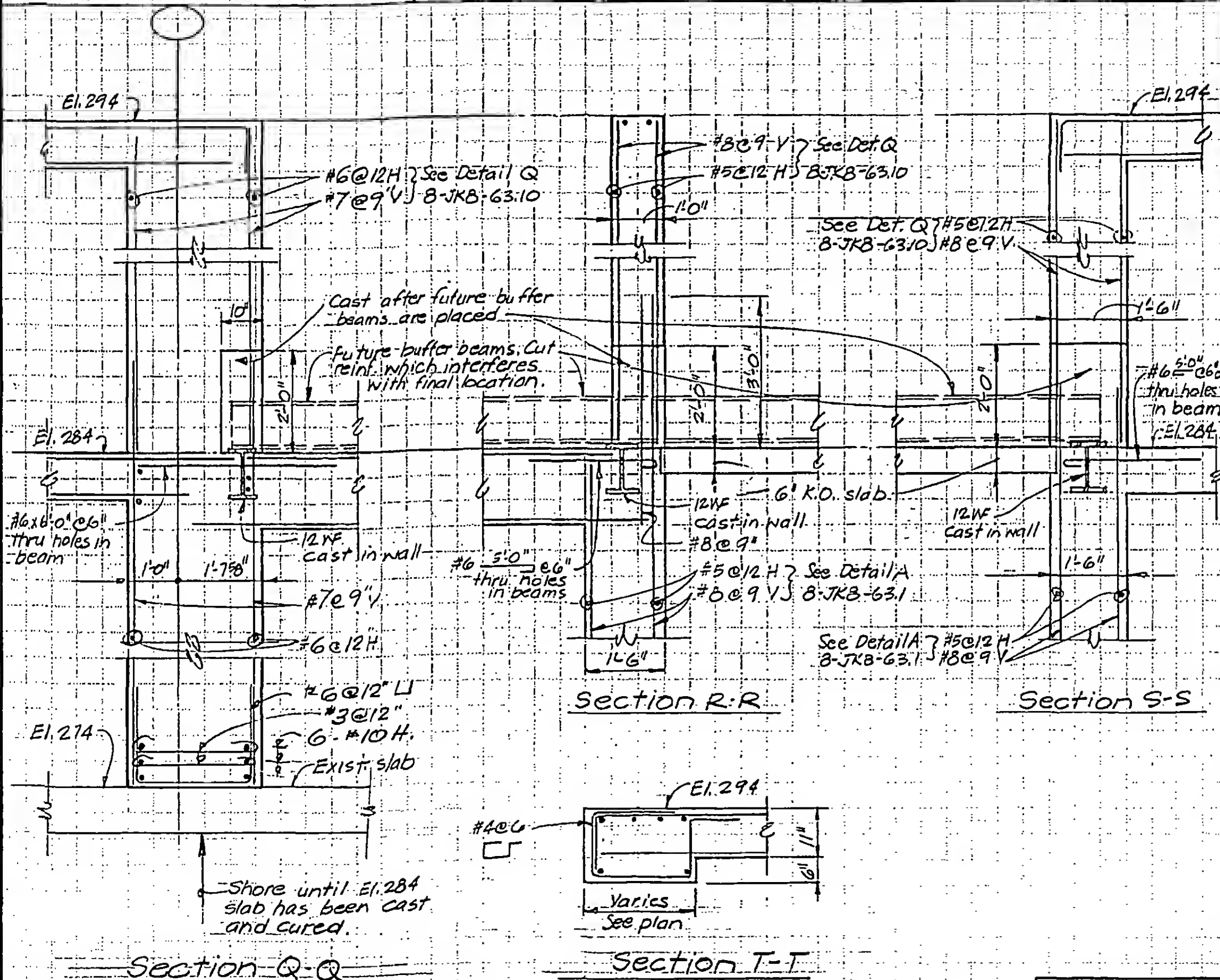
PROJECT THE WORLD TRADE CENTER.

TITLE SECTIONS AT ELEVATORS

DATE 1-15-72

REVISIONS

12-1-72



DESIGNED

DRAWN PMO

REVIEWED W. Brewer

8-JKB-63.11

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE BOX-OUT CONCRETE

DATE 12-17-71

REVISIONS

12/28/71
1-15-72Splice with same size
for each bar (T & B) cutCut rebar, may be bent
until slab is re-cast.Box-out in existing slab recast
after column is erected.Coat entire surface of existing concrete
with an approved epoxy bonding
compound prior to casting new concrete.Place one additional rebar (T & B) for each
rebar (T & B) is interruptedHook re-bar (T & B) where the cut rebar is
interrupted by column.

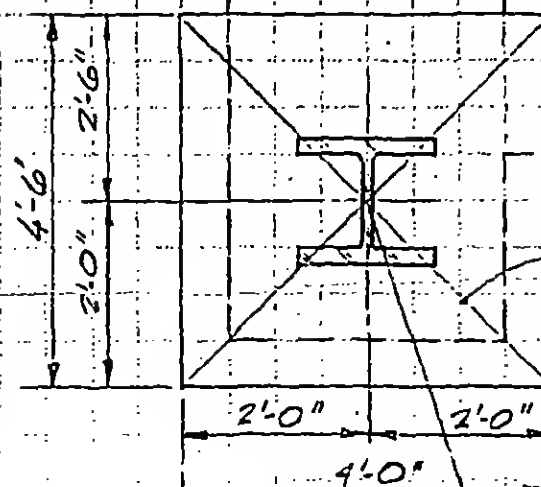
Note: Orientation of column varies.

Note: Shoring shall be installed
as required prior to removal of
existing concrete and shall be
maintained until new concrete
has reached design strength.

Detail A & E (same for both direction)

Note: Cut rebar to be bent up to provide 3'-0" x 3'-0" min. clear. Detail A
Cut rebar to be bent up to provide 6'-0" x 6'-0" min. clear. Detail E

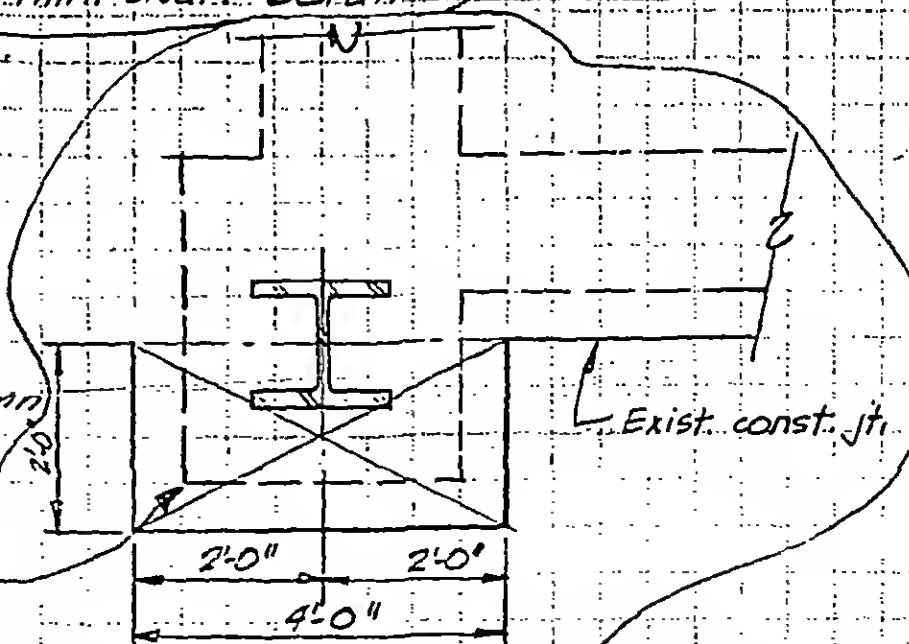
New wall



Detail B

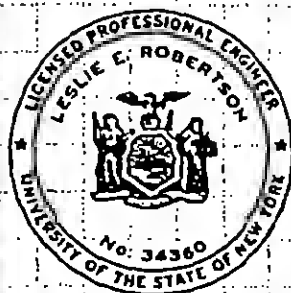
Remove slab for new column
and wall construction
recast and reinforce as
shown in detail A

New column



Detail F

8-1K8-641



DESIGNED KC

DRAWN J. Gracius

REVIEWED (U) Brewer

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

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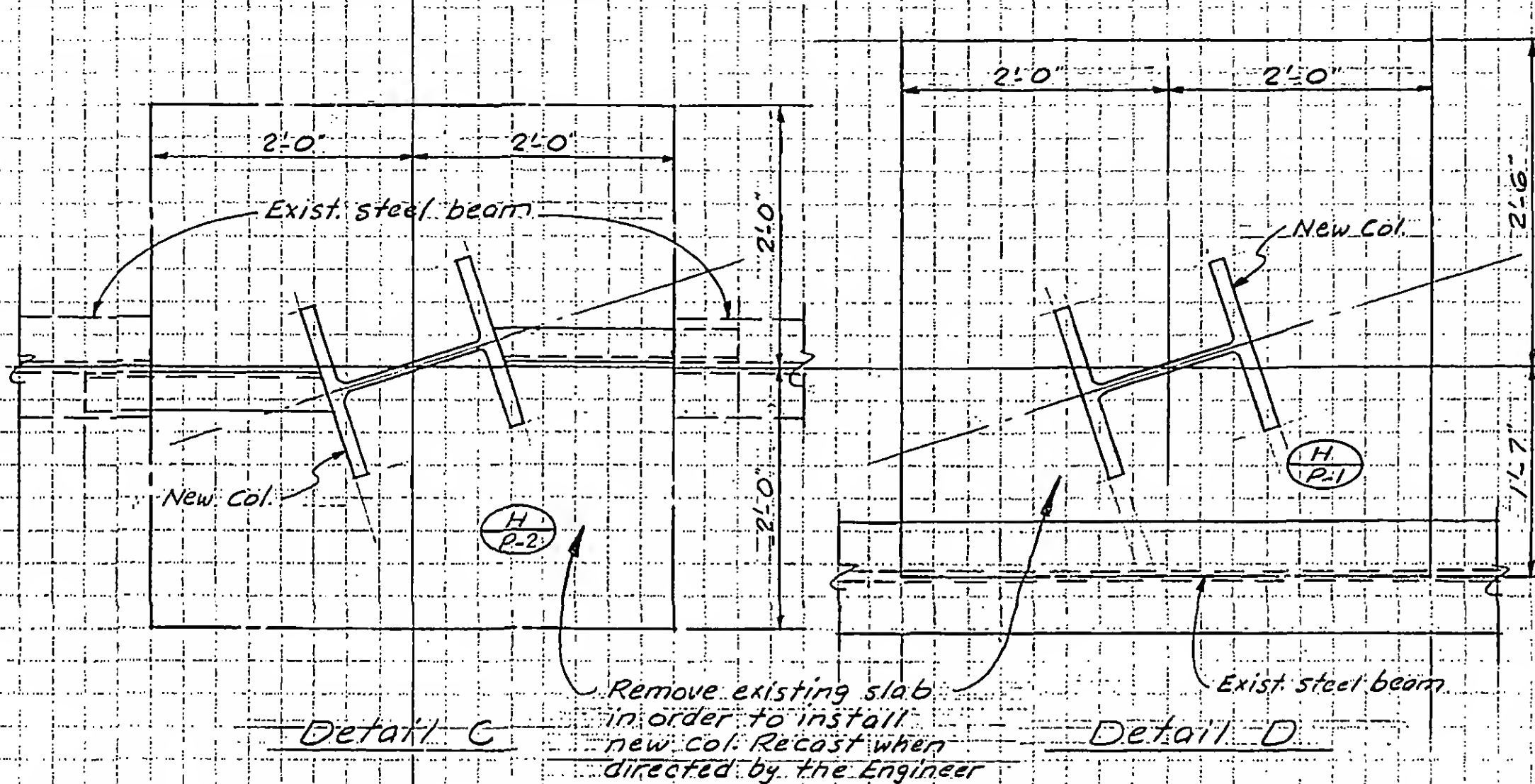
TITLE

BOX-OUT CONCRETE

DATE

12-28-71

REVISIONS



Note:

See Detail A, 8-JKB-64.1
for all information not
shown.



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DRAWN

REVIEWED

8-JKB-64.2

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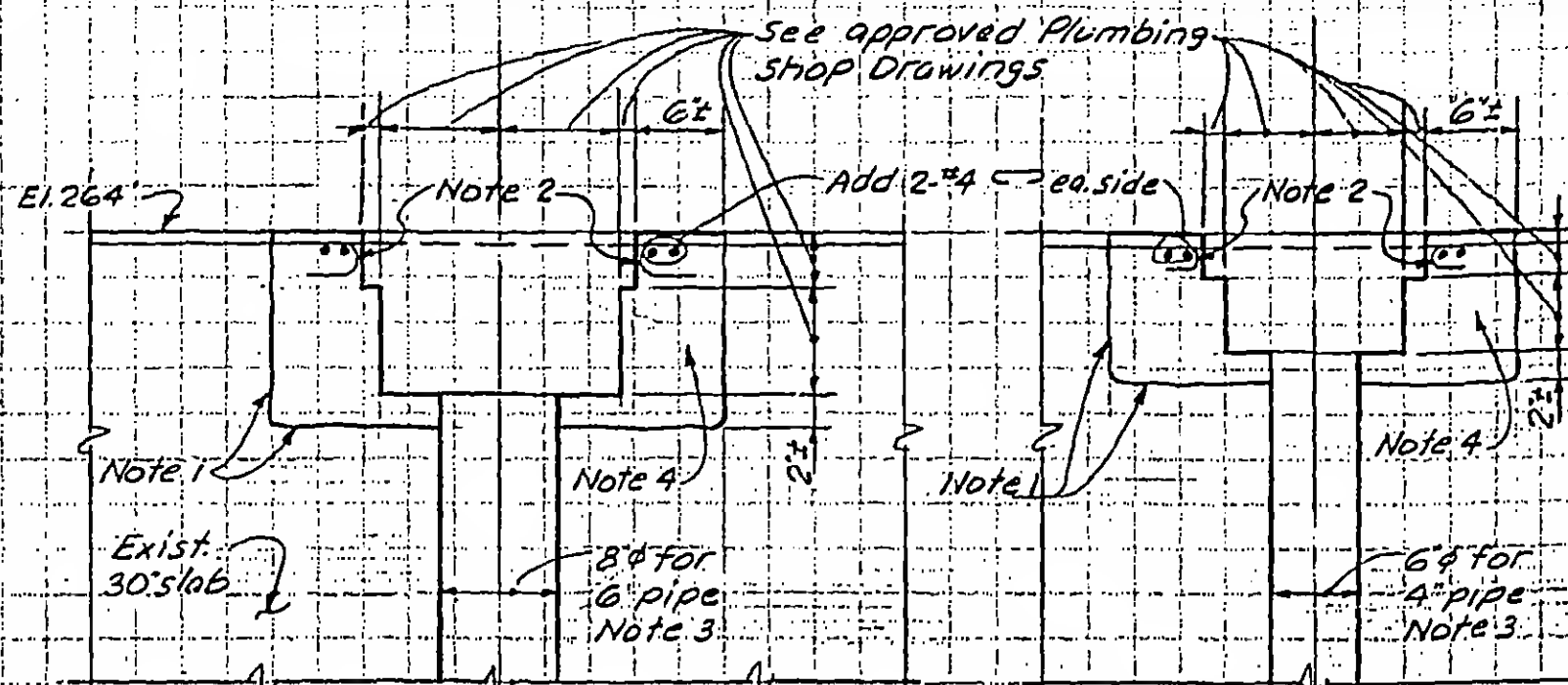
TITLE

DETAILS AT EL. 264 - ZONE K-1

DATE

11-26-71

REVISIONS



Detail 65A

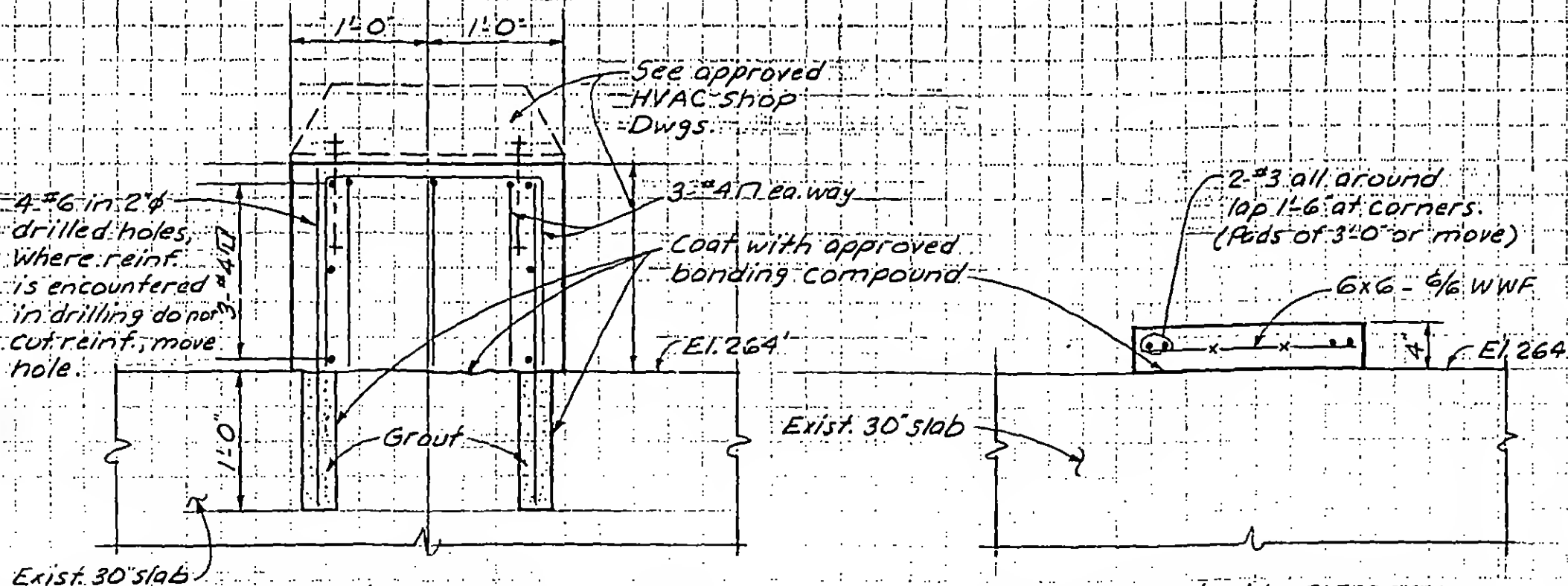
Detail 65B

Note 1. Remove exist. concrete without damaging existing reinforcing.

Note 2. Cut exist. reinf. interrupted by drain and hook.

Note 3. Core drill round hole for pipe.

Note 4. Set drain and recast concrete around using approved "non-shrink" concrete with approved bonding compound.



Detail 65C

Detail 65D

DESIGNED
W. BREWERDRAWN
A. FRANQUI

REVIEWED

B-JKB-65.1

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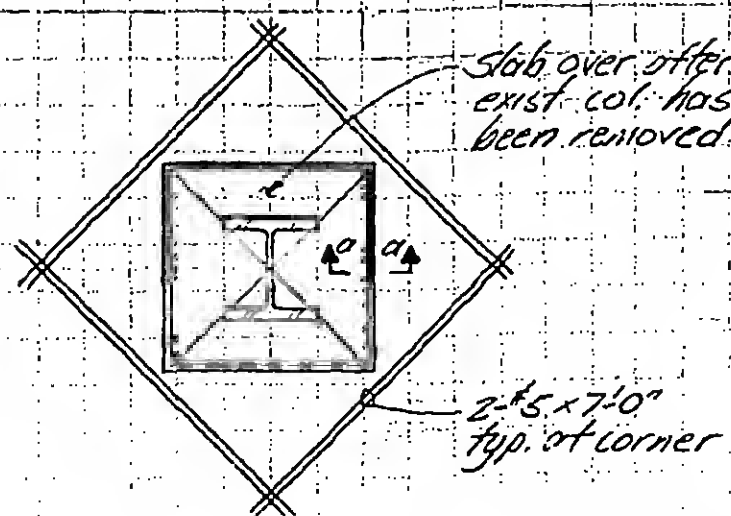
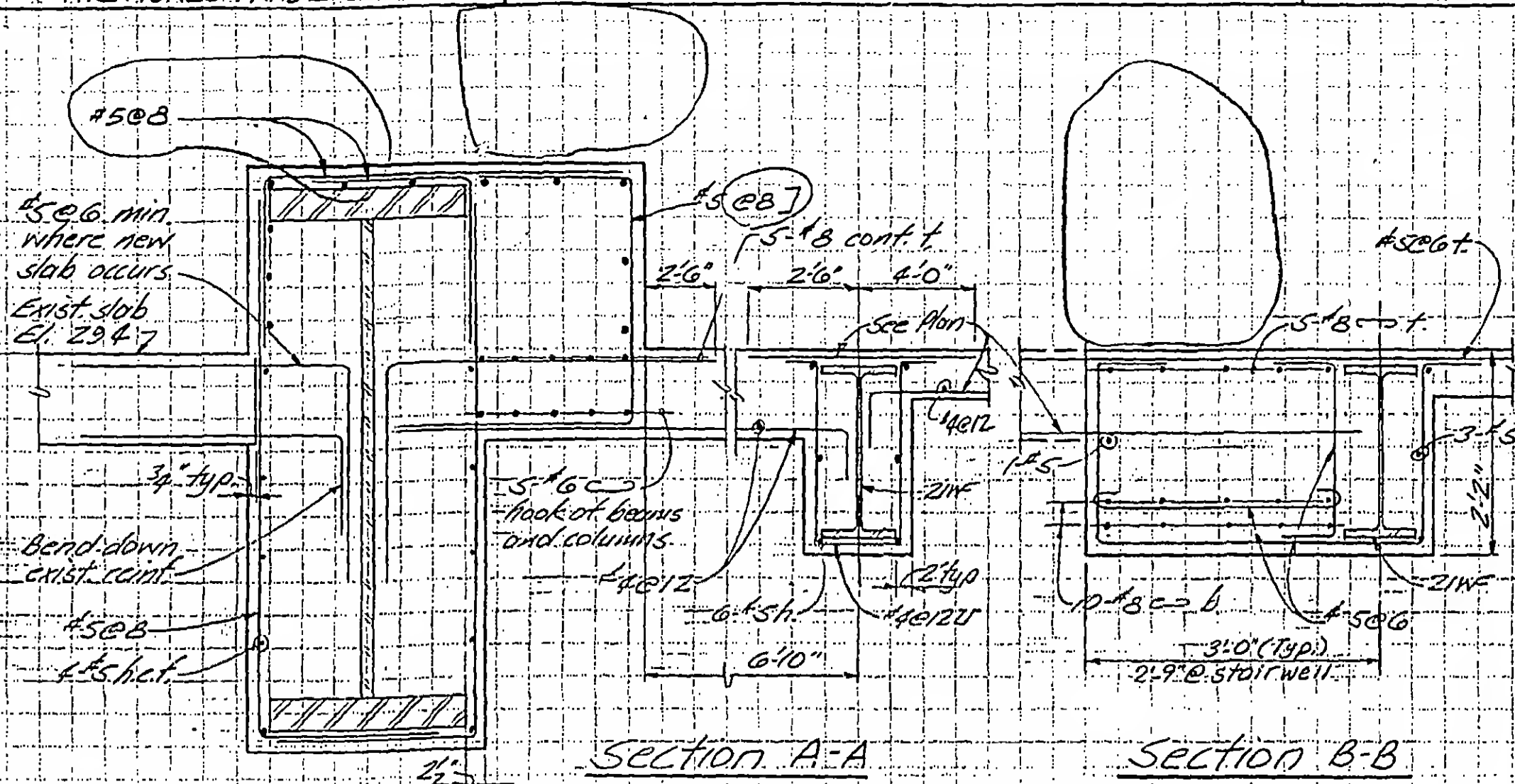
TITLE SECTION AT PASSENGER ELEVATOR AT EL. 294

DATE 1-15-72

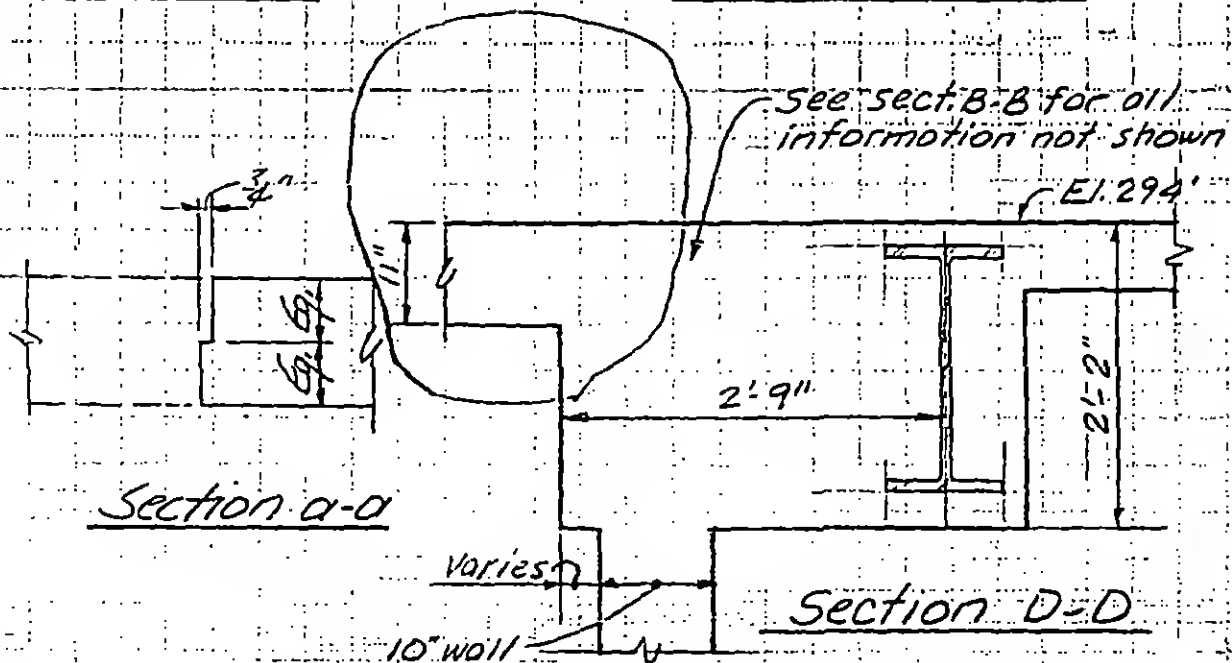
REVISIONS

3-10-72

3-15-73



Detail C



Section a-a

Section D-D



DESIGNED

DRAWN J. Adams

REVIEWED (C) J. Prewer

8 JK8-66

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TITLE

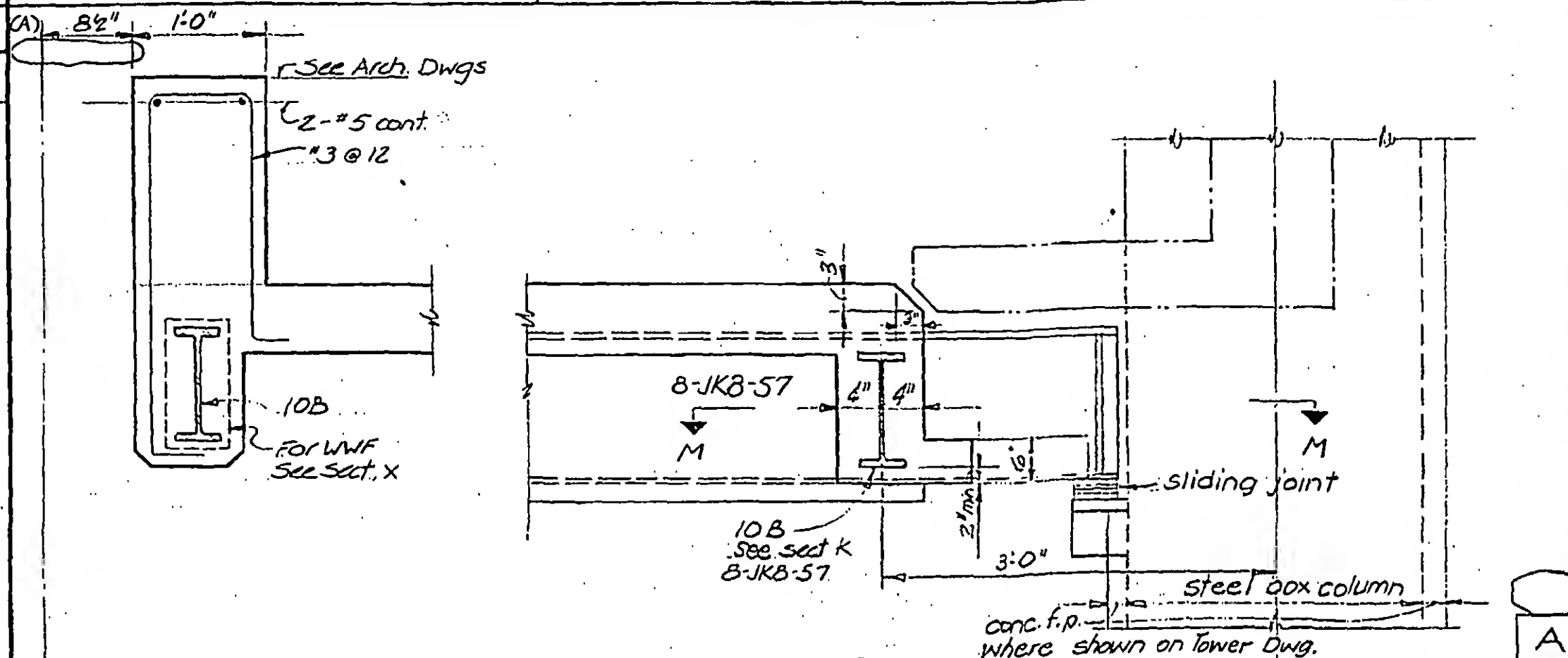
STAIR AT TOWERS

DATE

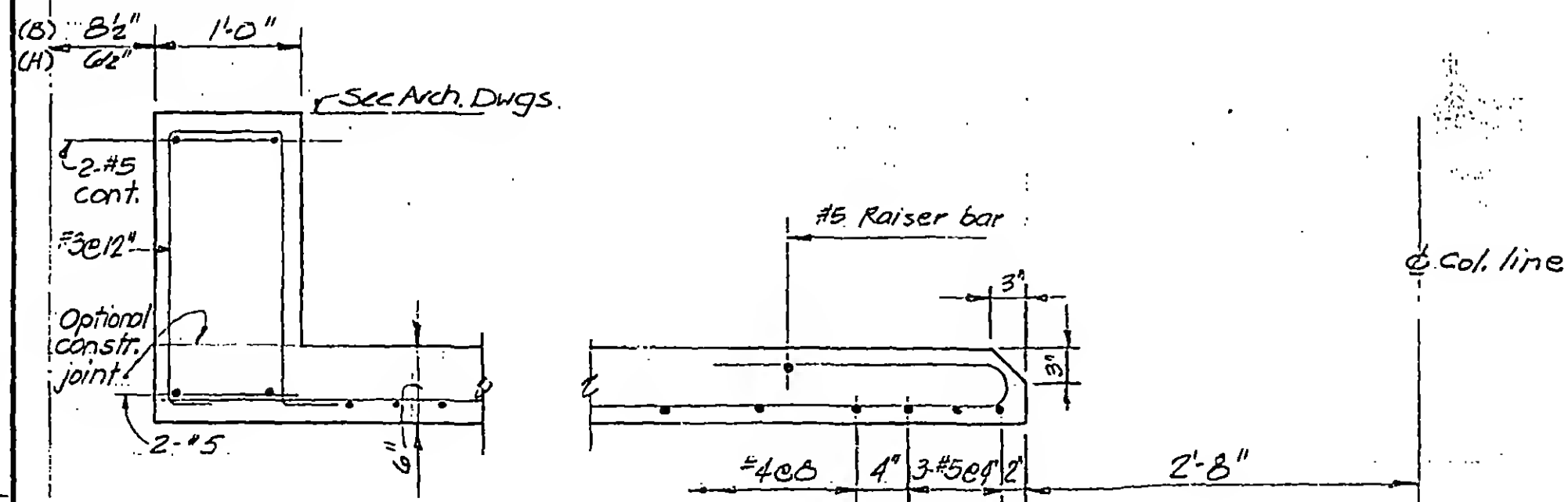
7-27-73

REVISIONS

10-11-73



Steel hangers



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WAB

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JTM

REVIEWED

JTM

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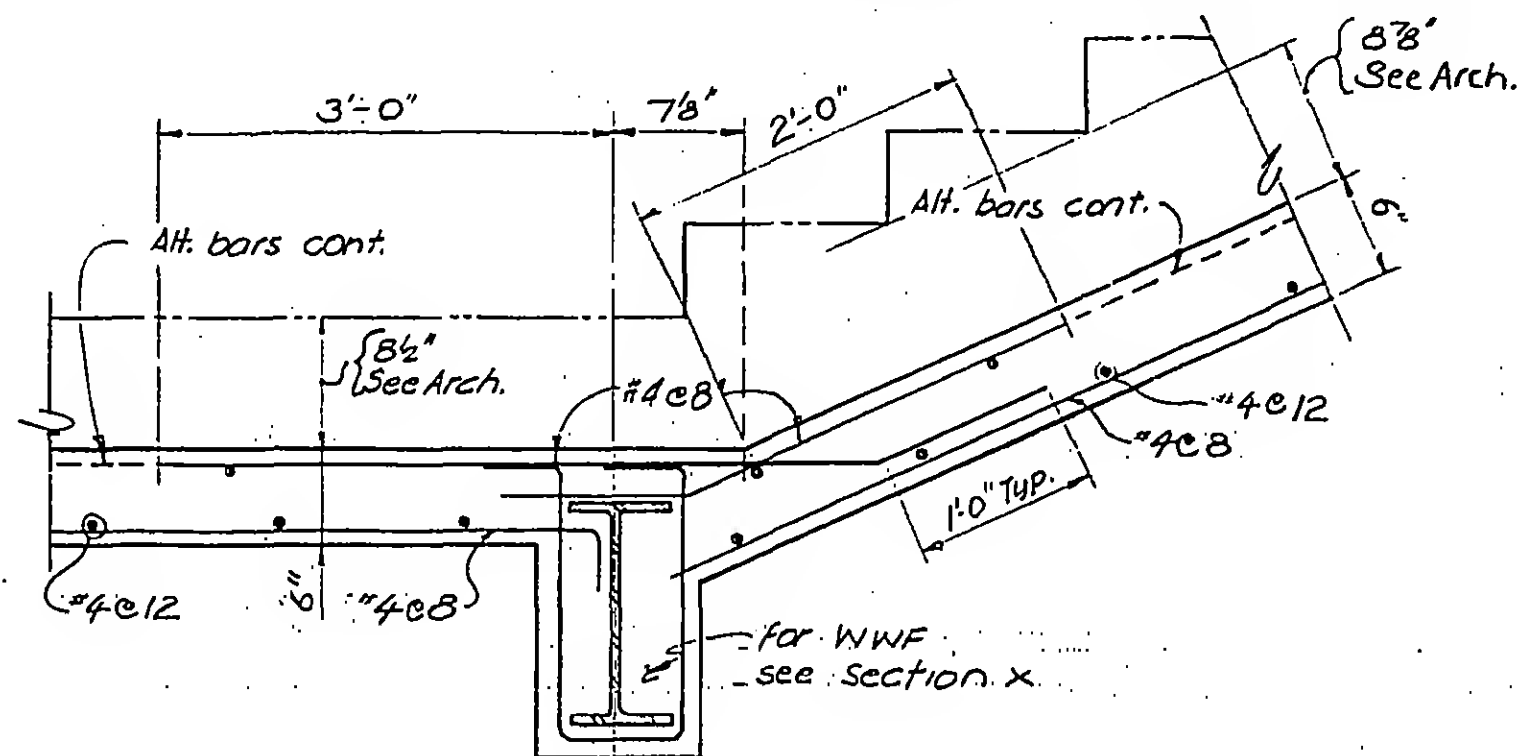
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

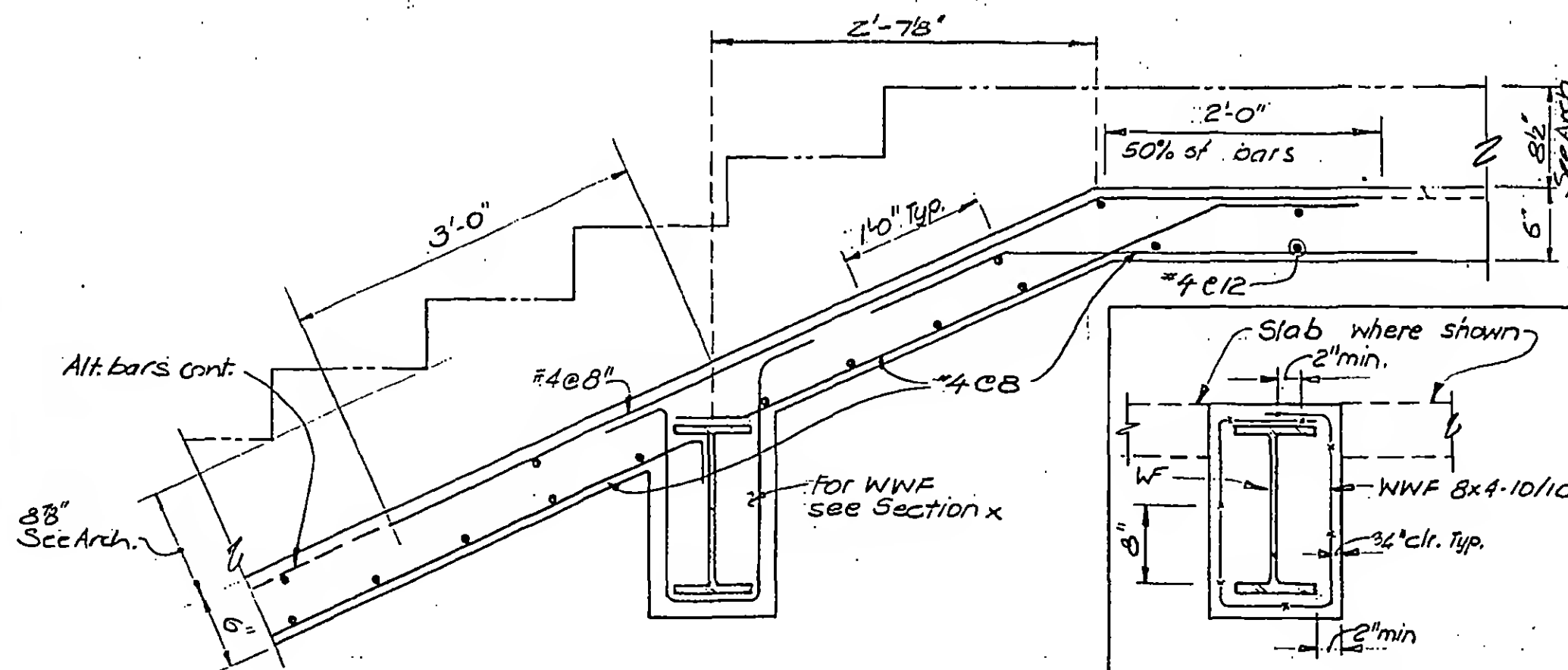
TITLE STAIR AT TOWERS

DATE 7-27-73

REVISIONS



C



D X

8UKB-68.2



DESIGNED WAB

DRAWN R. K. Becker

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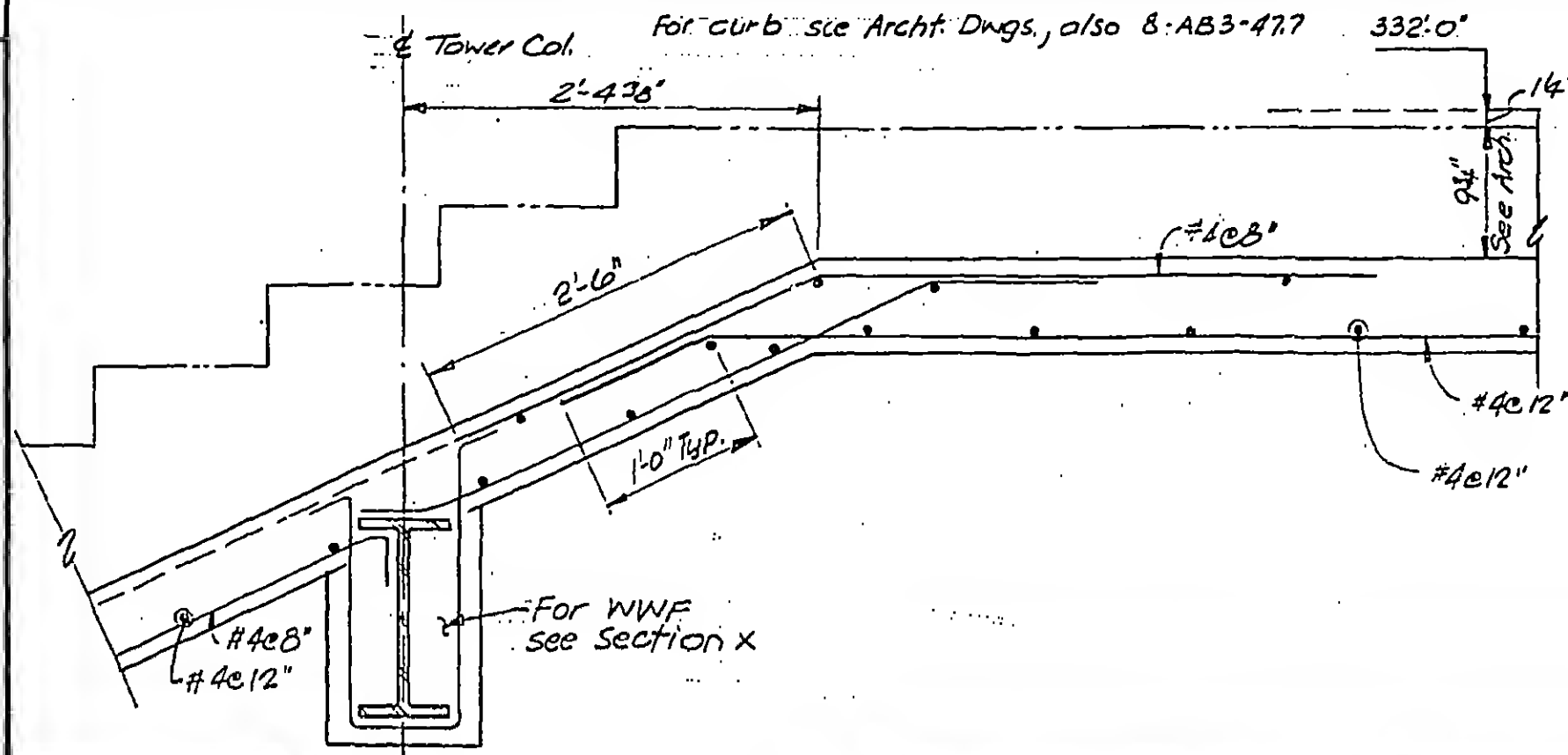
PROJECT THE WORLD TRADE CENTER

TITLE STAIR AT TOWERS

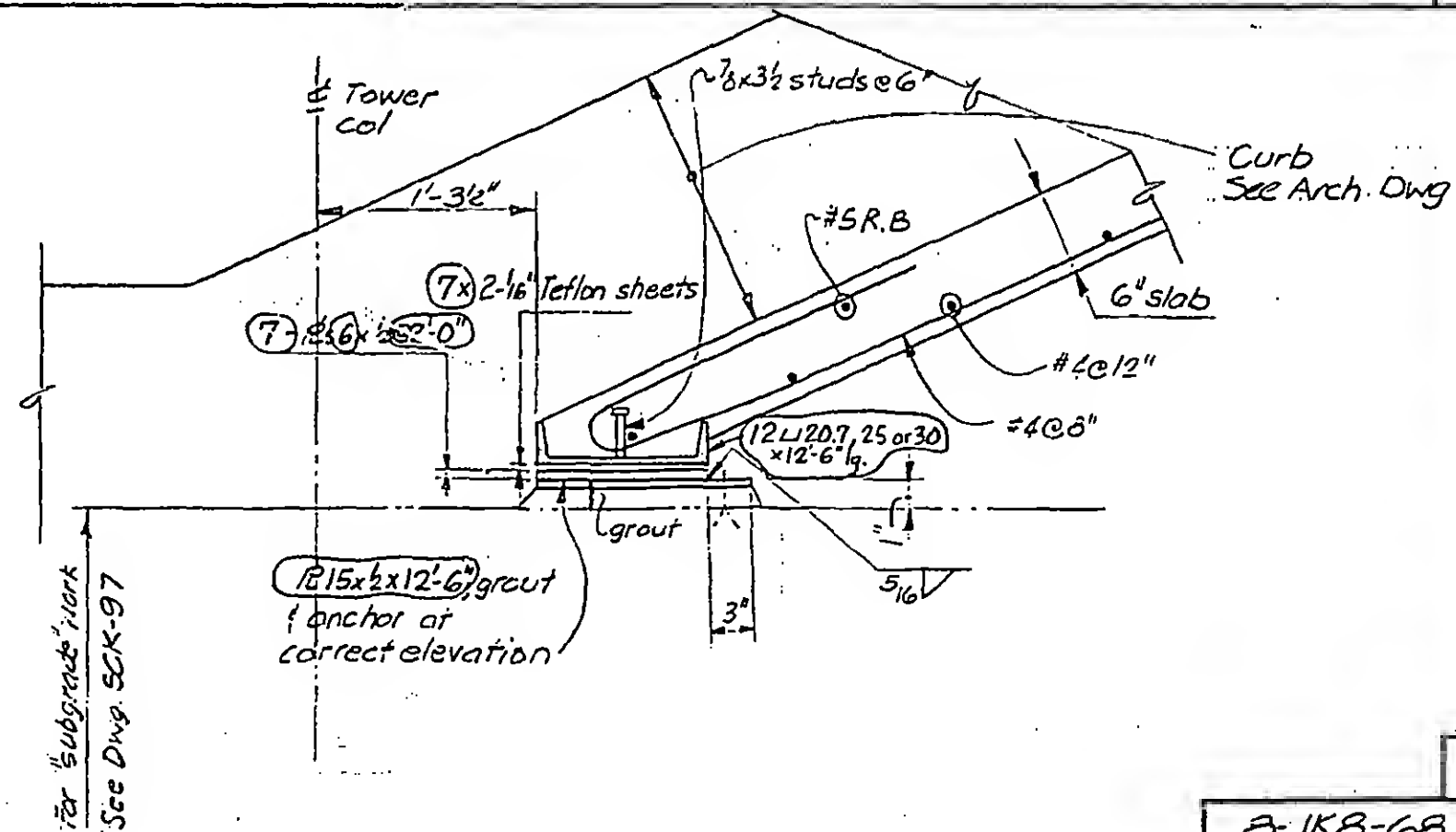
DATE 7-27-73

REVISIONS

12-19-73



E



F

8-JK8-68.3

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JTM

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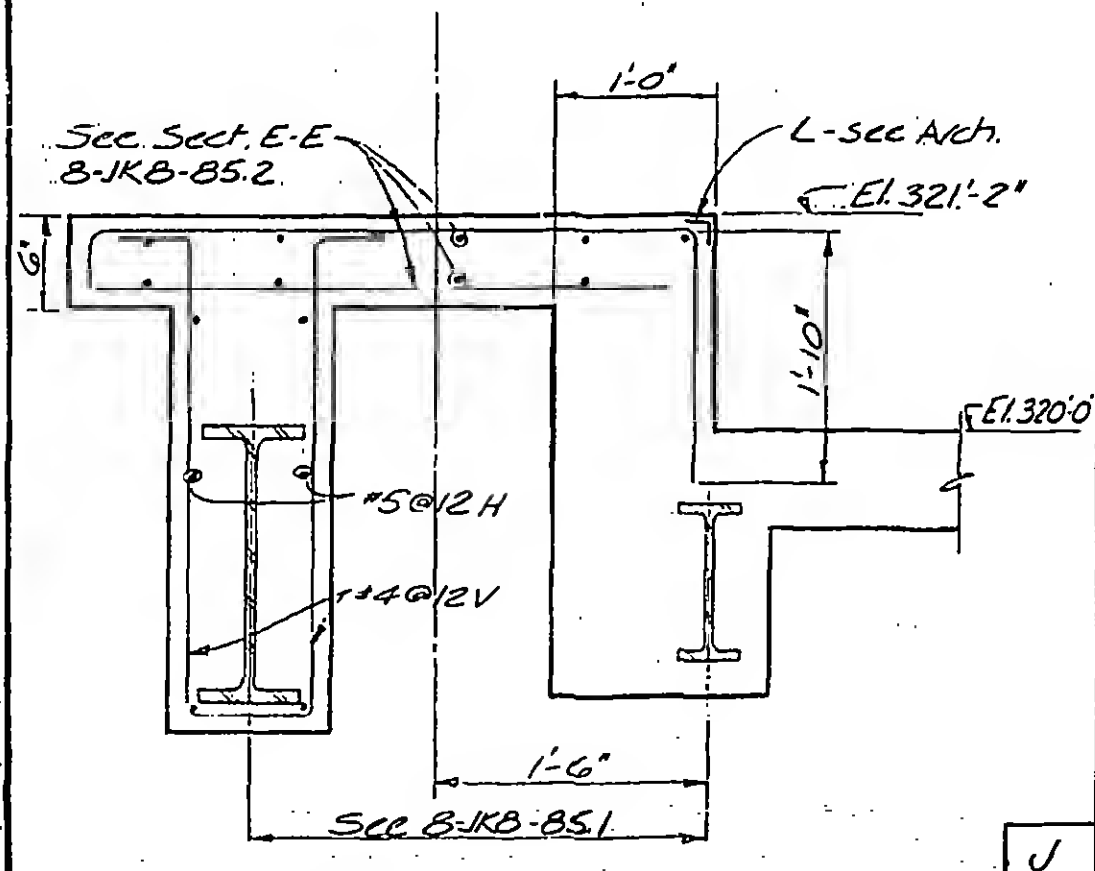
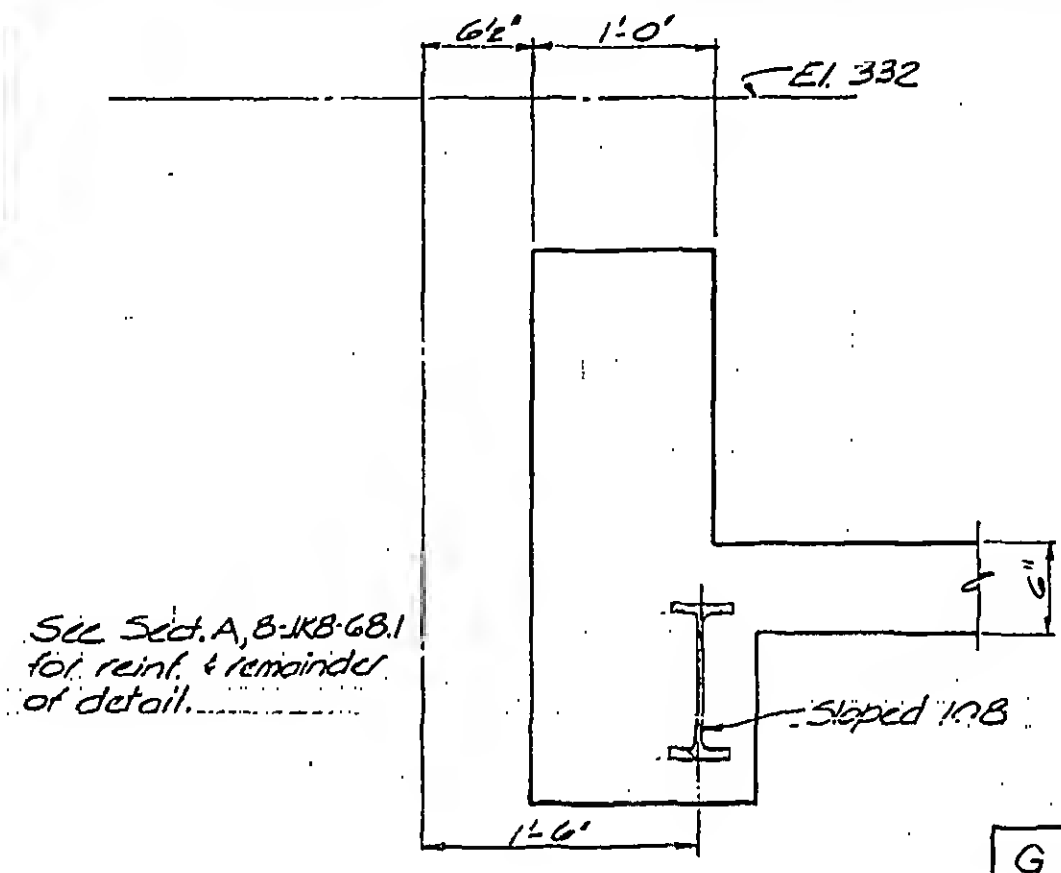
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TITLE SECTIONS - EL. 332

DATE 10-11-73

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DRAWN

J.B.

REVIEWED

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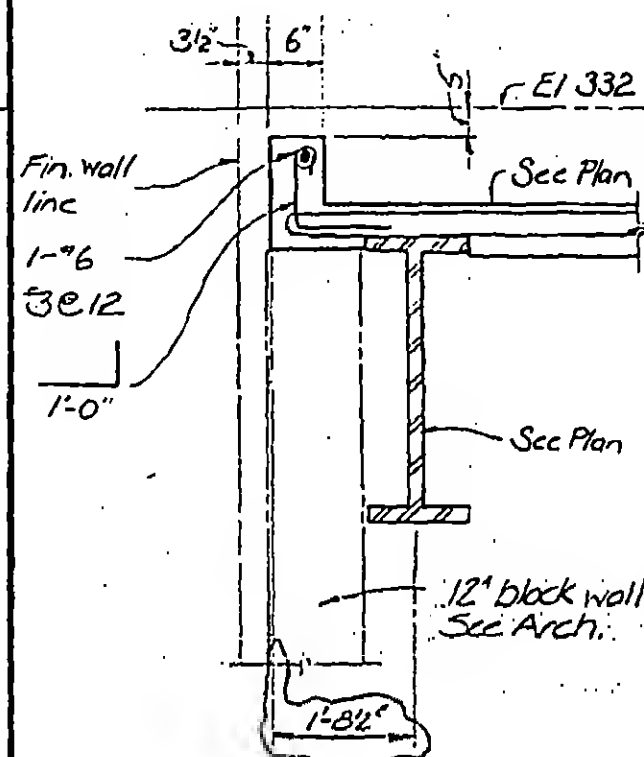
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DATE 7-27-73

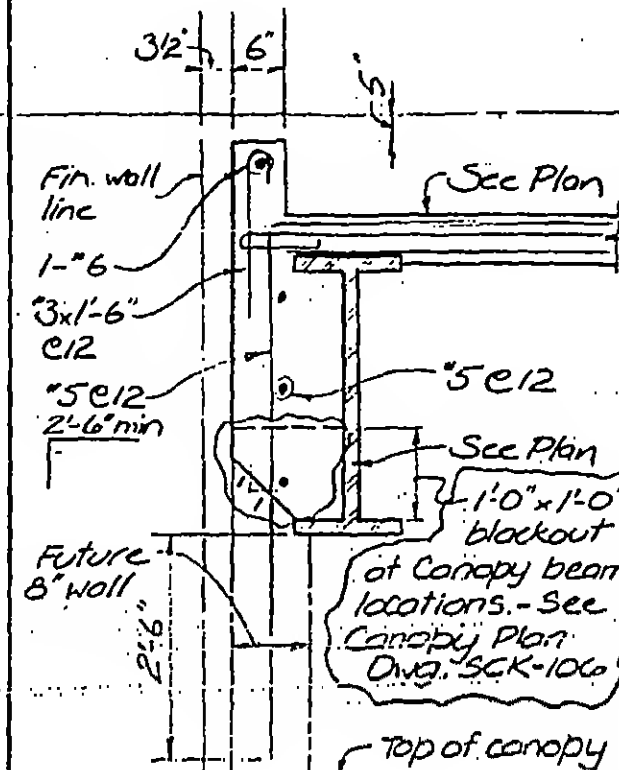
REVISIONS

9-19-73

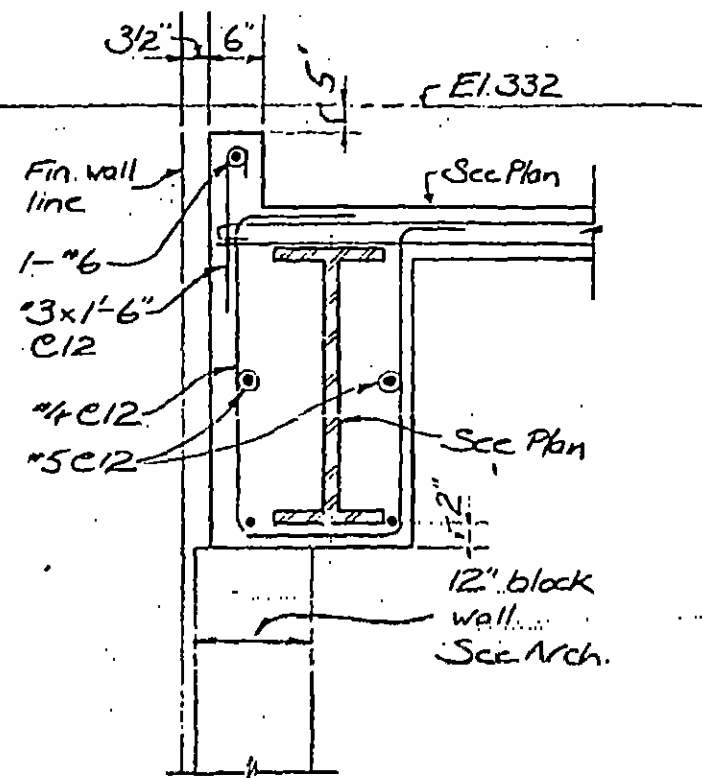
4-5-74



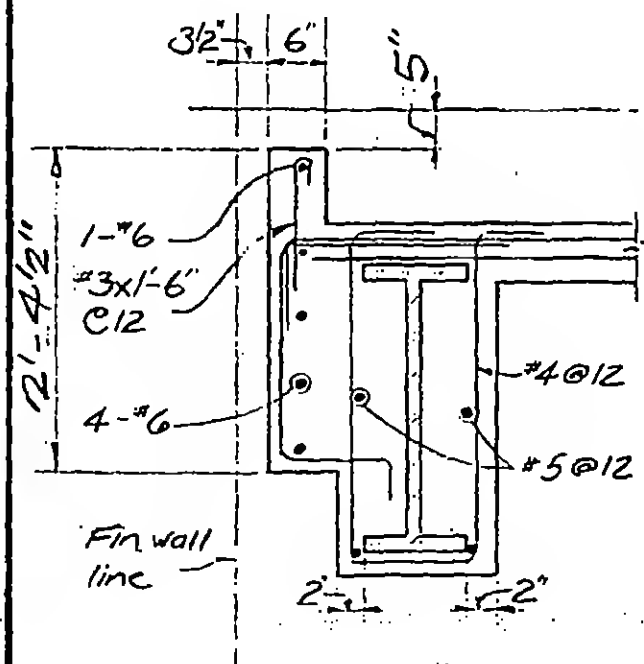
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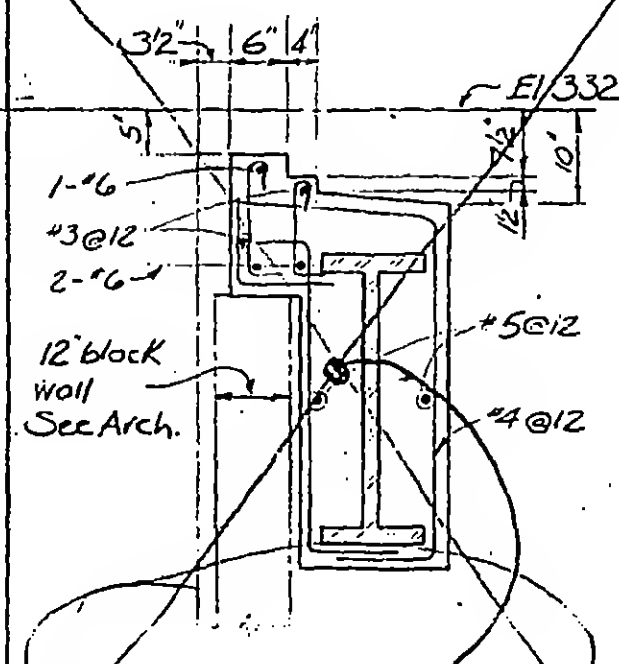
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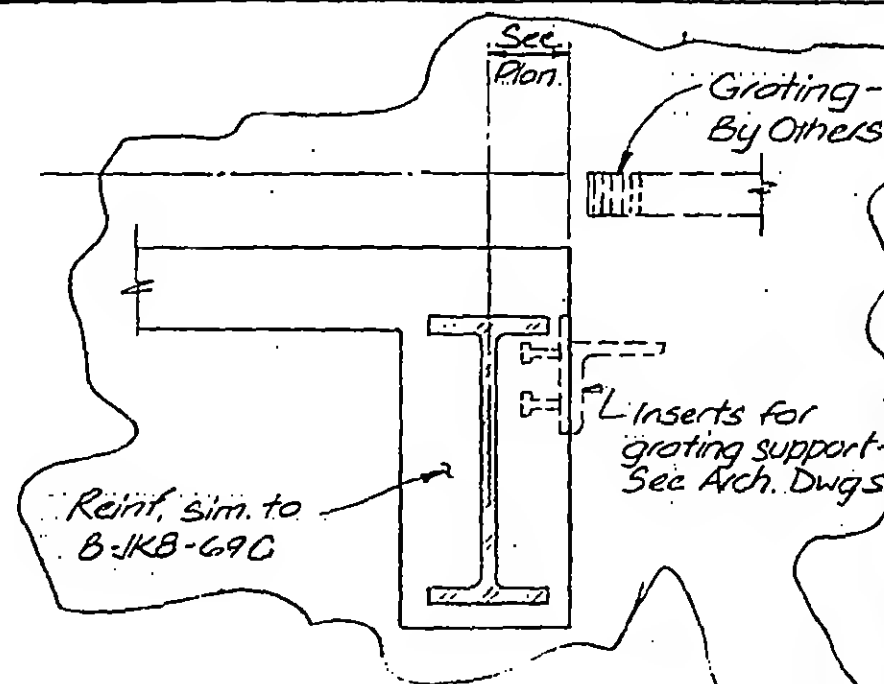
C



D



E



F

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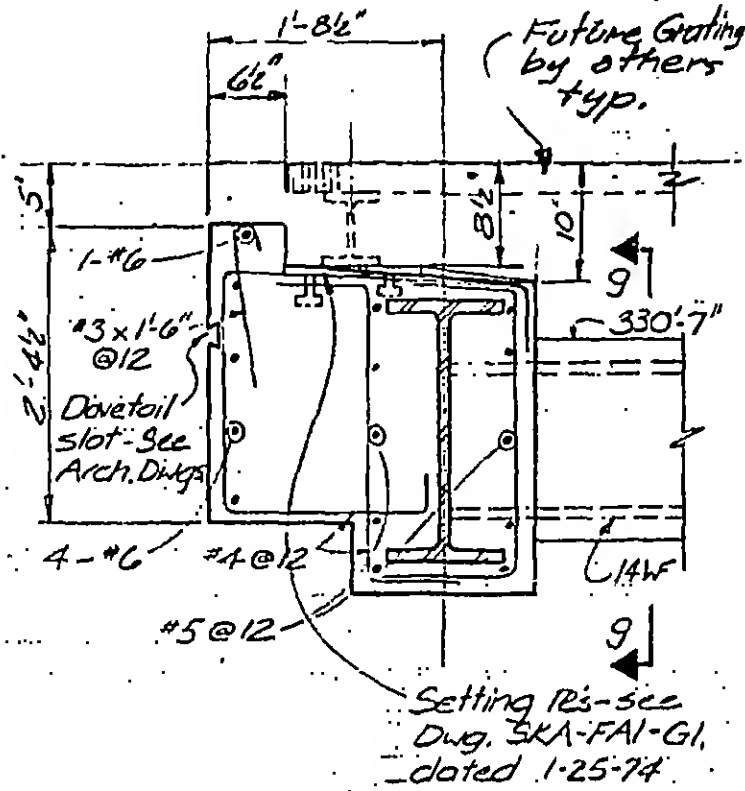
DATE 7-27-73

REVISIONS

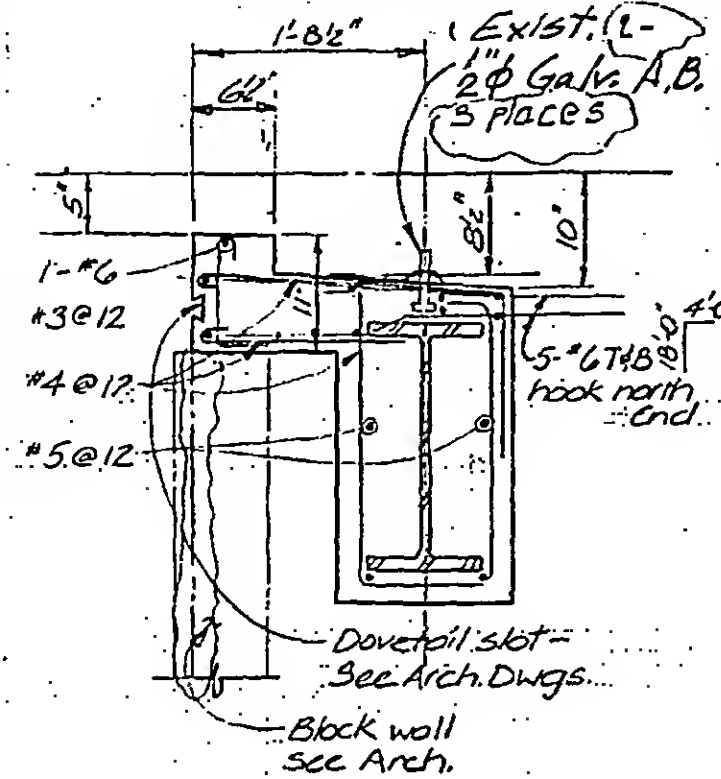
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4-5-74

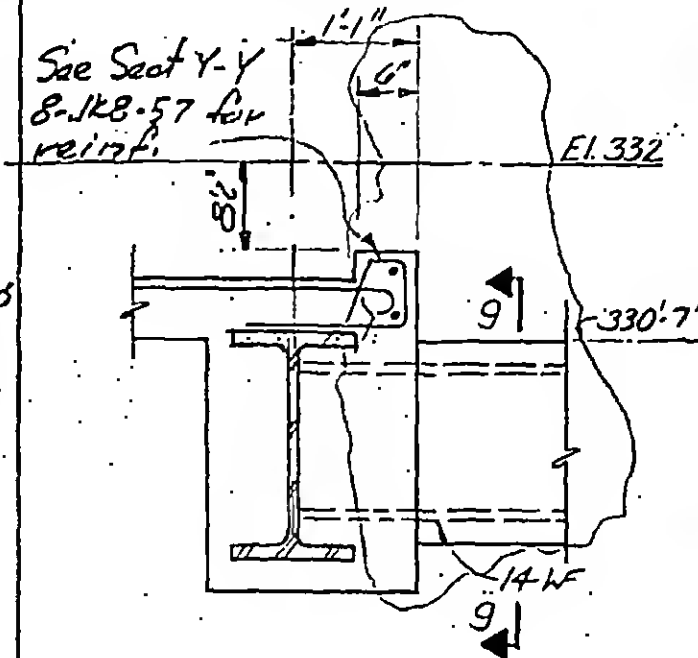
10-21-74



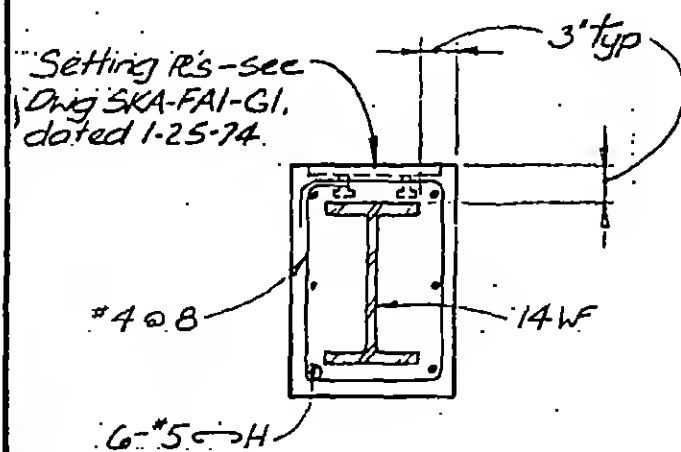
G



H



J



9

8-JKB-69.2



DESIGNED WAB

DRAWN J Banks

REVIEWED ITM

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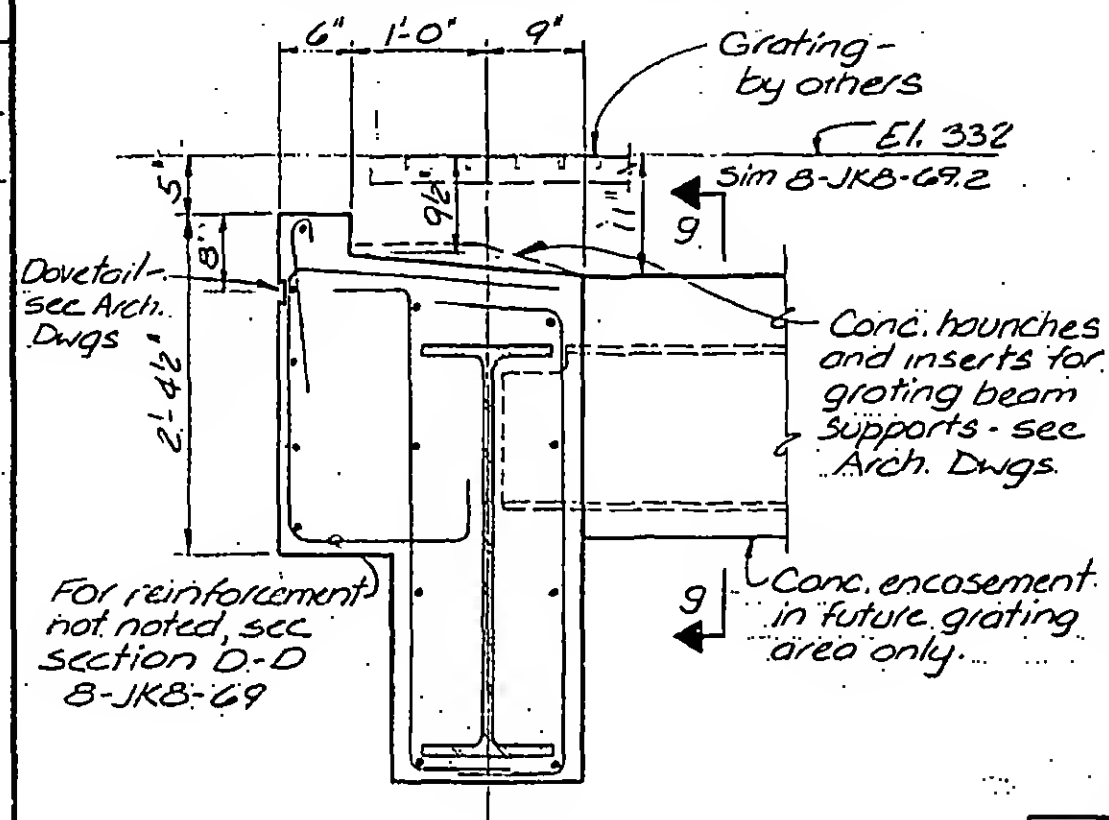
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DATE 10-11-73

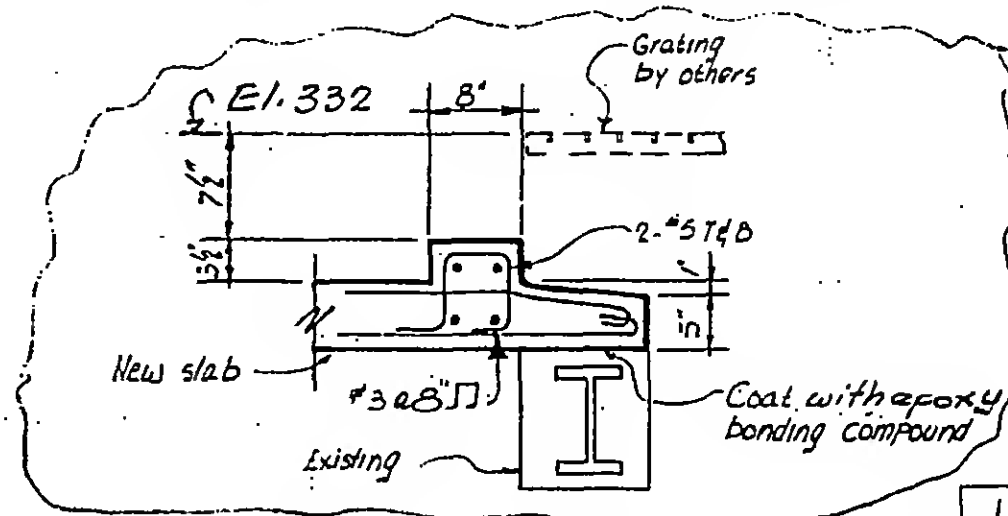
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4-5-74

10/21/74

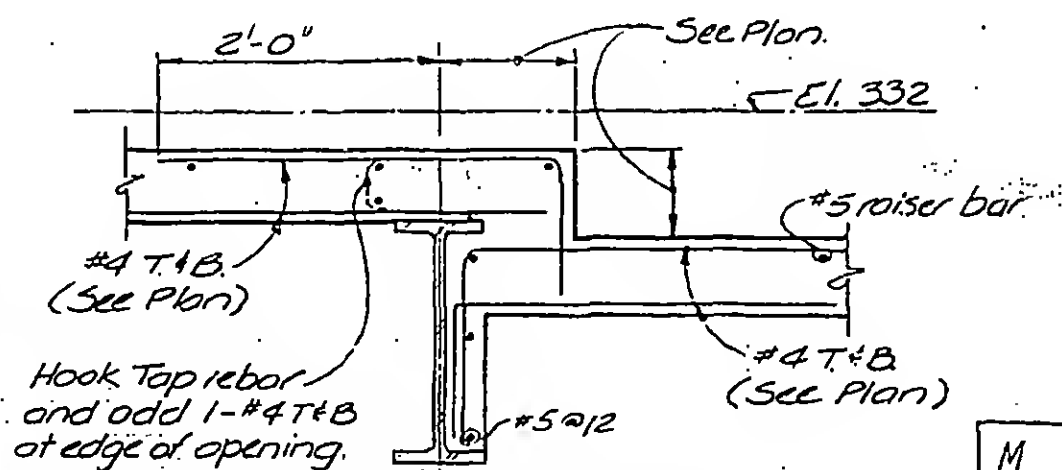


K

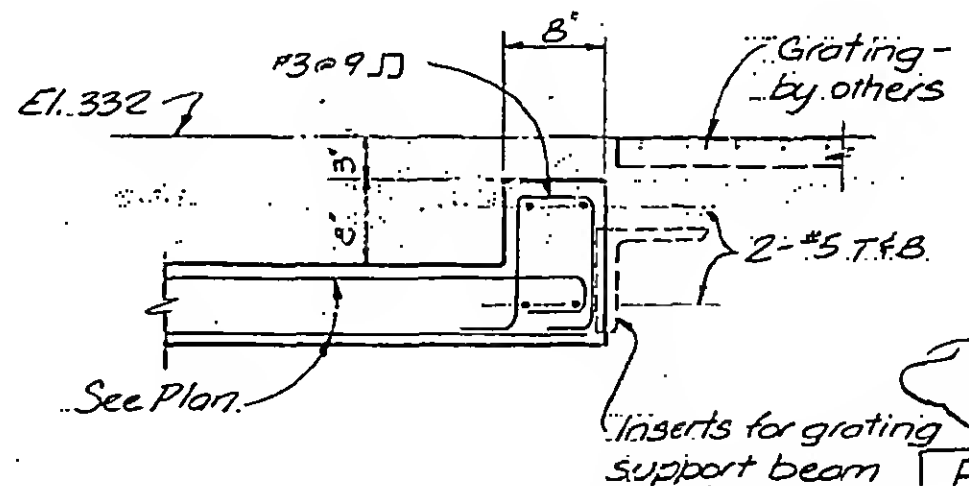


L

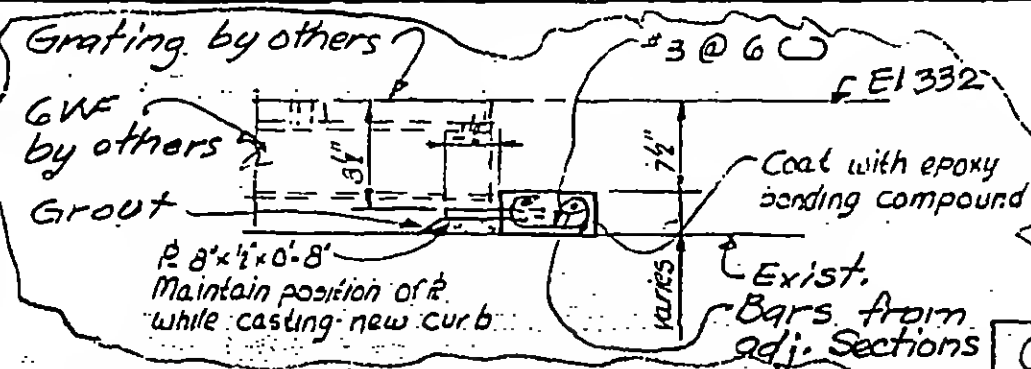
Note Z: Remove existing concrete without damage to exist. reinforcing.
Clean face of exist. concrete and thoroughly coat entire surface with epoxy bonding compound.



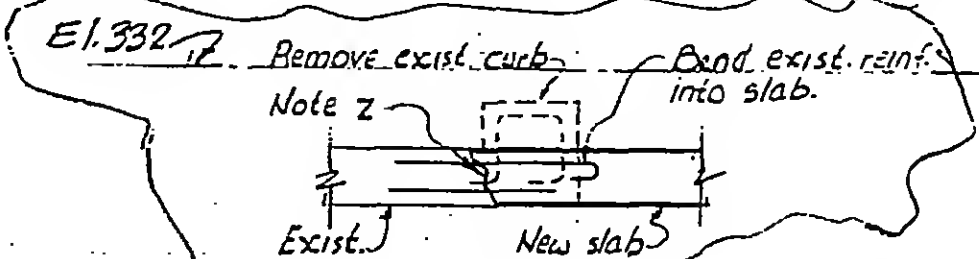
M



P



O



N

B-JKB-69.3



DESIGNED K.C.

DRAWN J.B.

REVIEWED J.T.M.

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

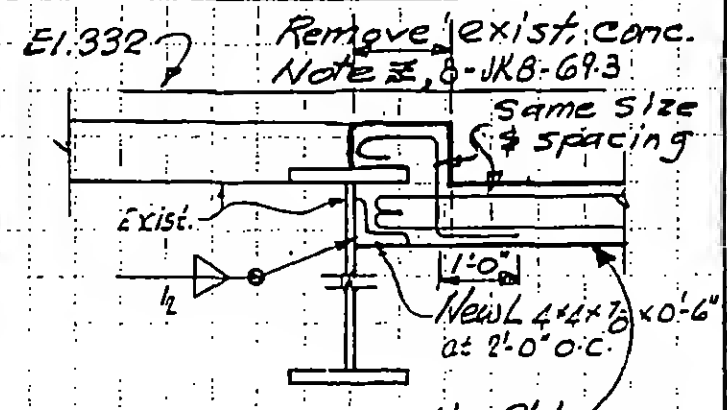
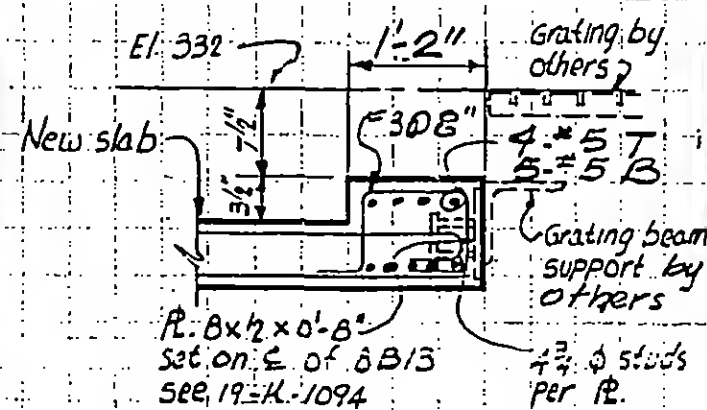
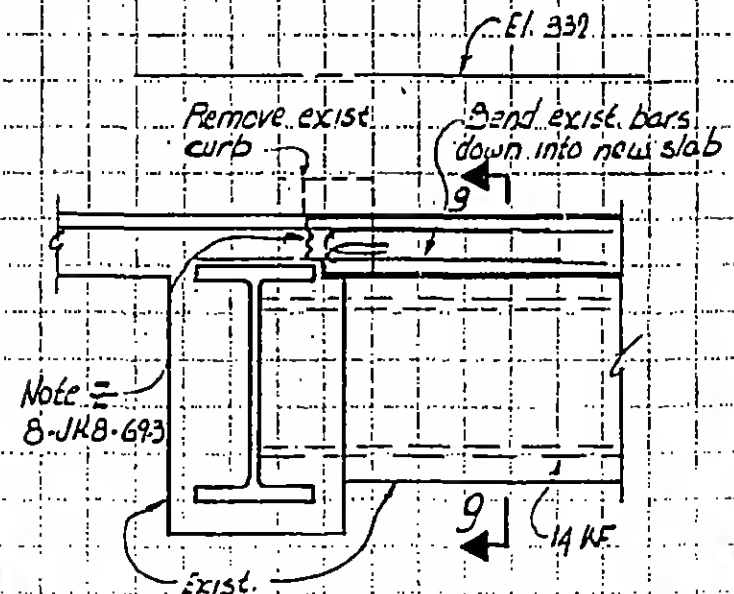
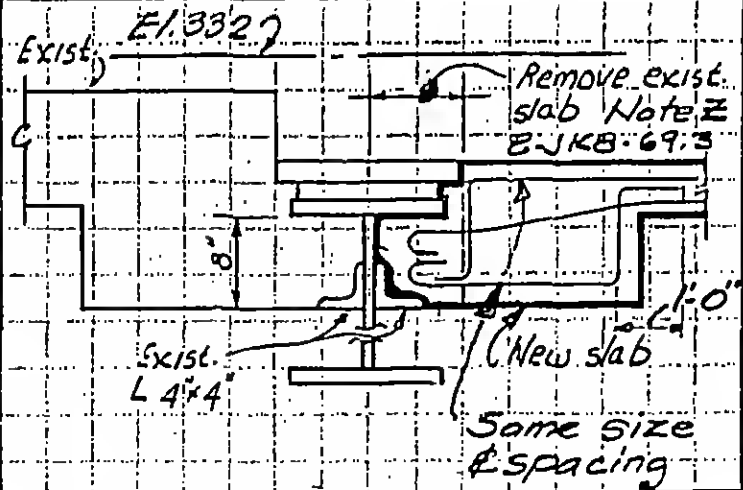
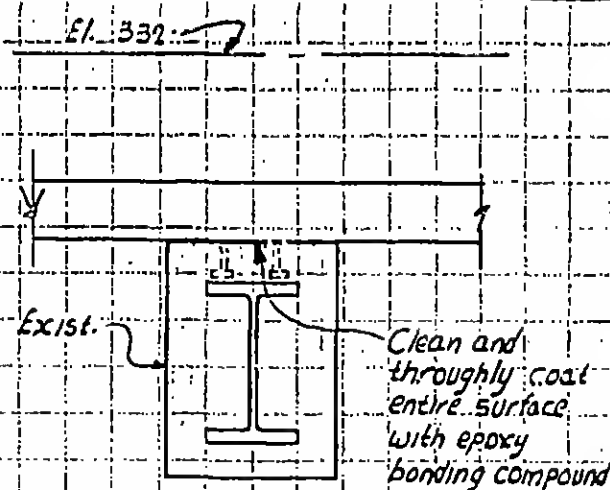
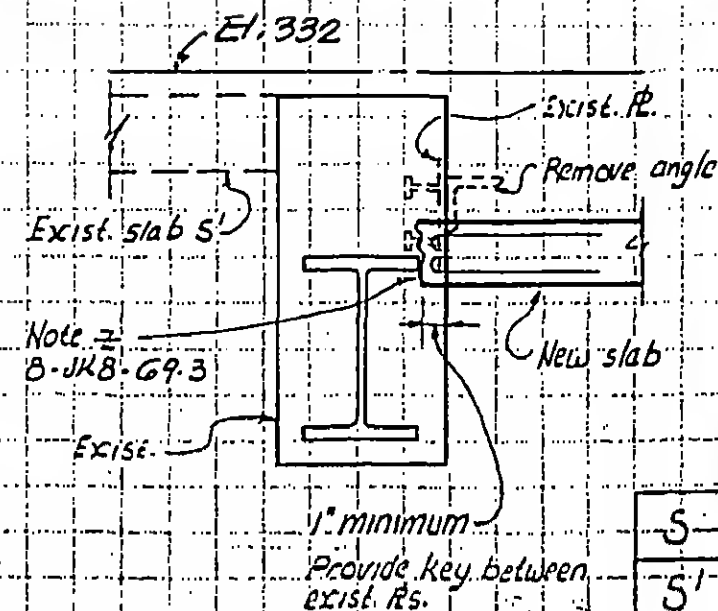
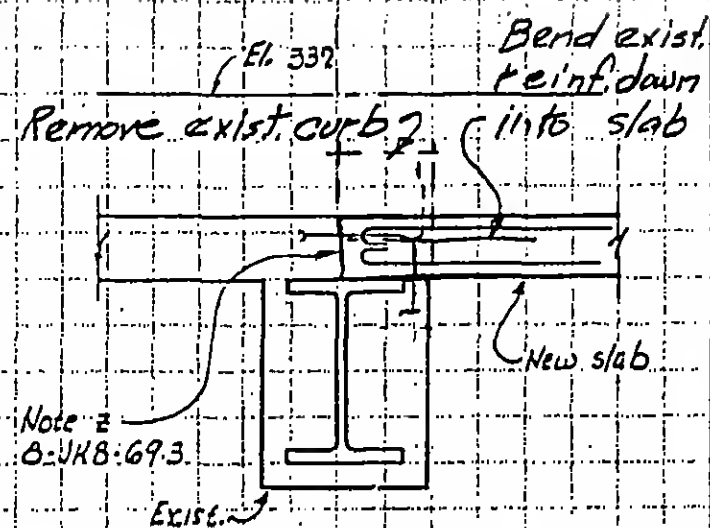
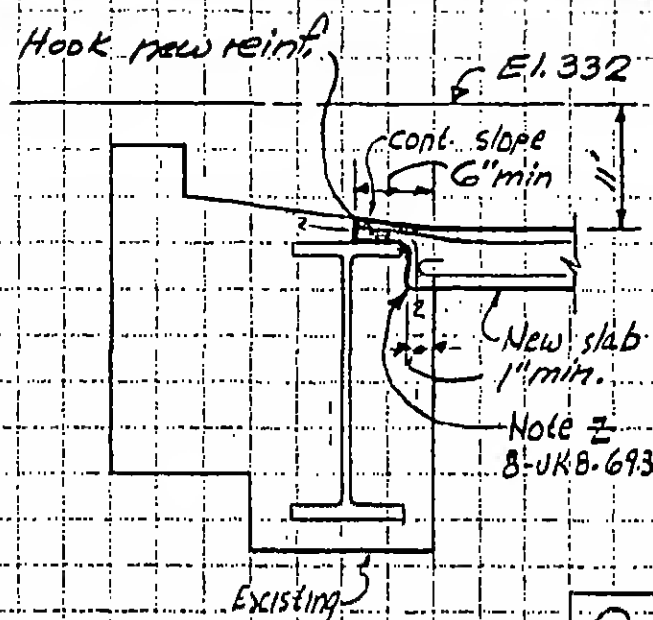
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TITLE SECTION EL. 332

DATE 10-21-74

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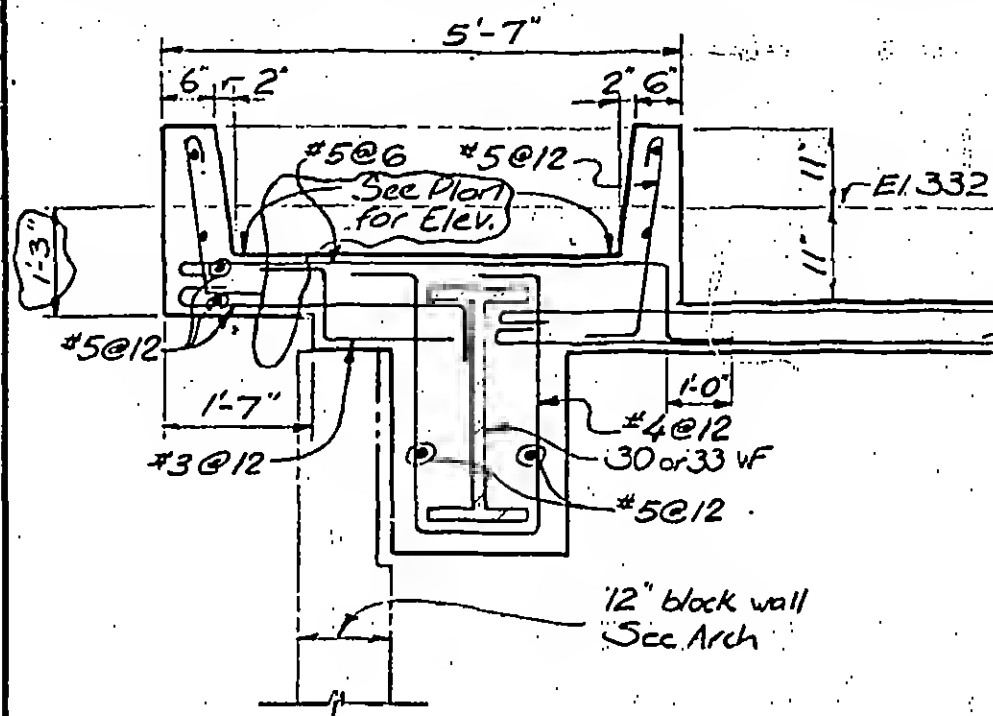
TITLE SECTIONS EL. 332

DATE 7-27-73

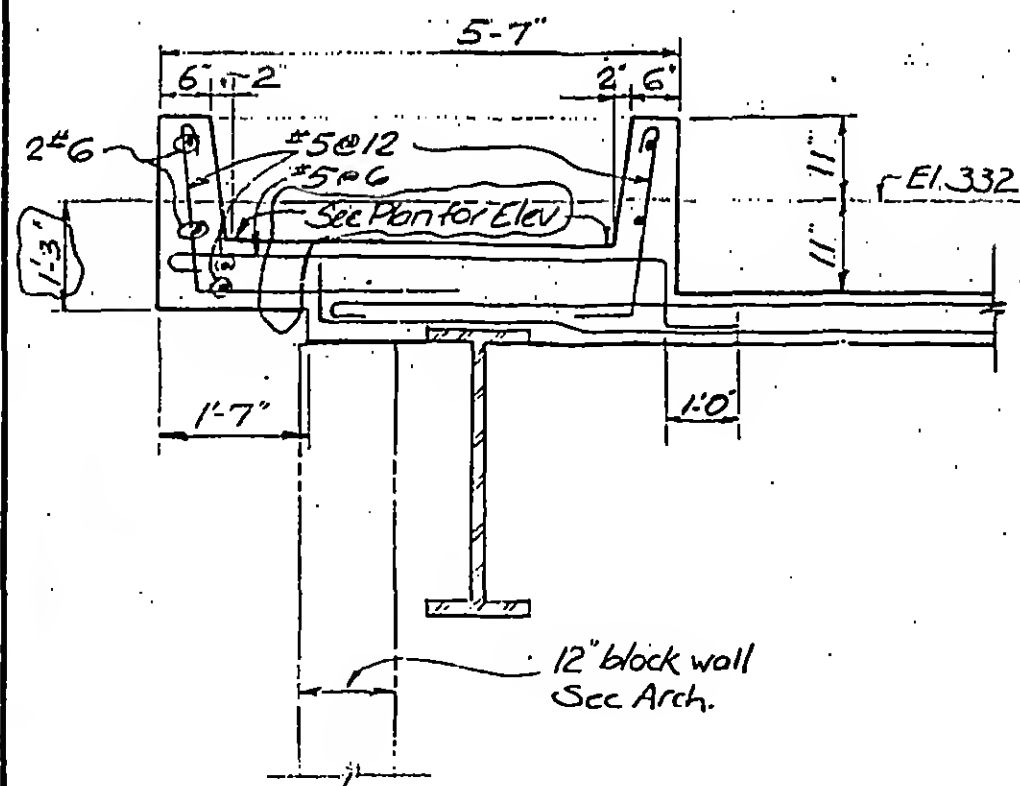
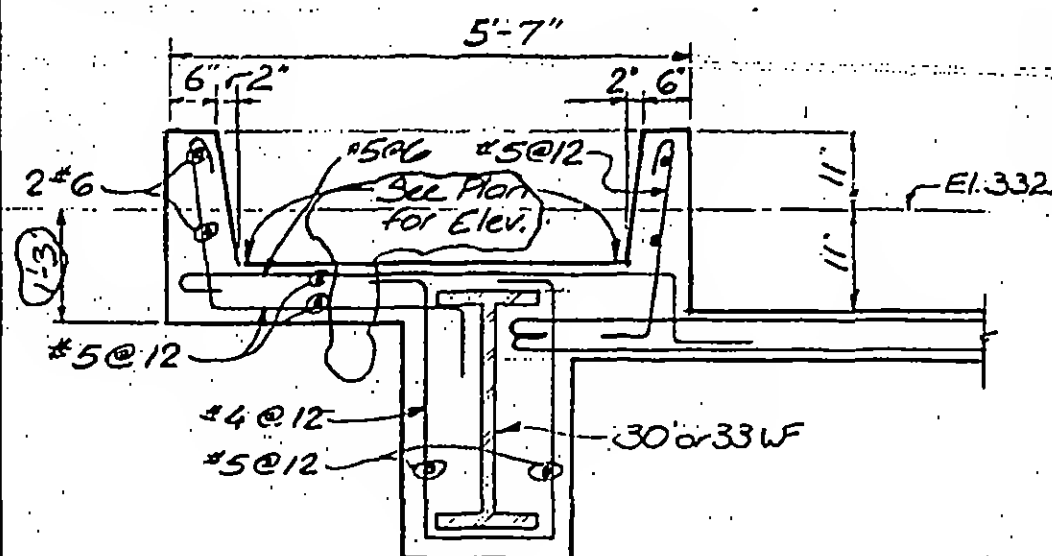
REVISIONS

9-19-73

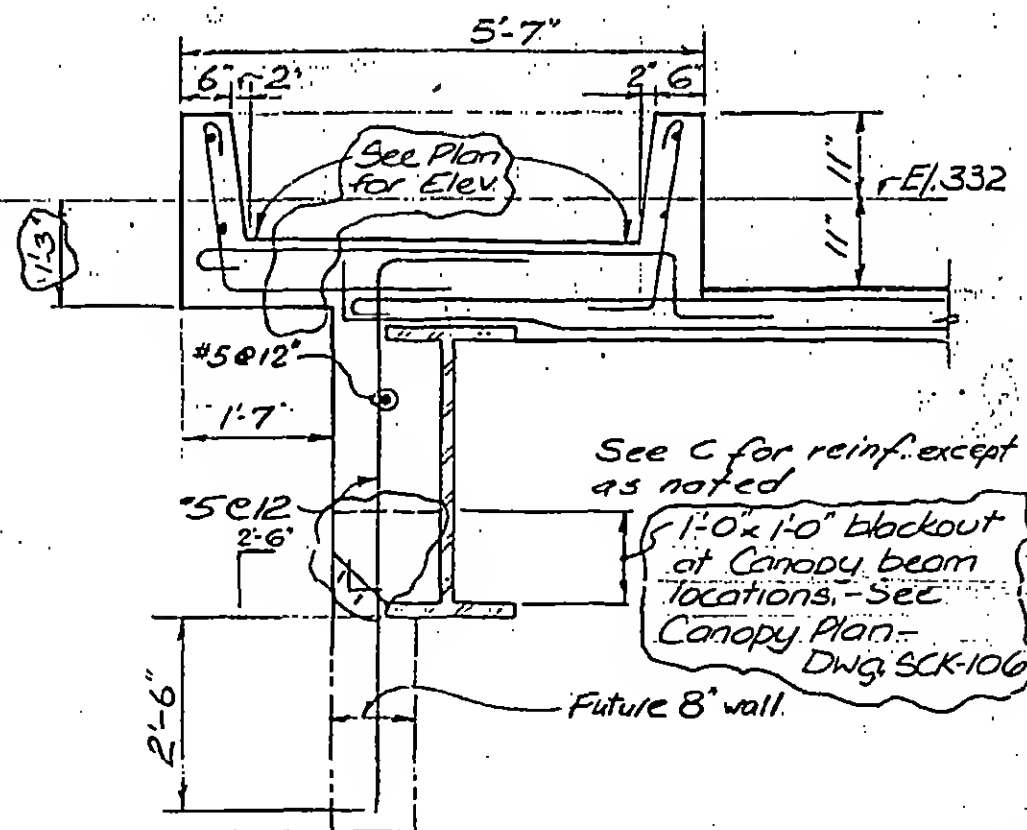
4-5-74



A B



C D



B-JK8-70

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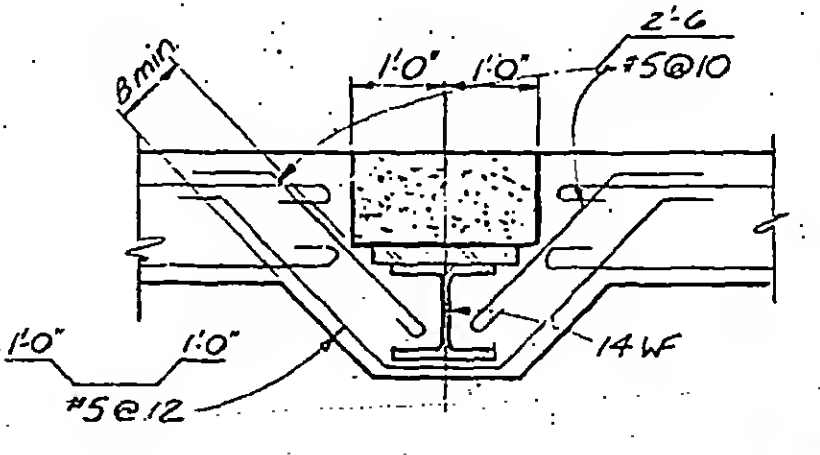
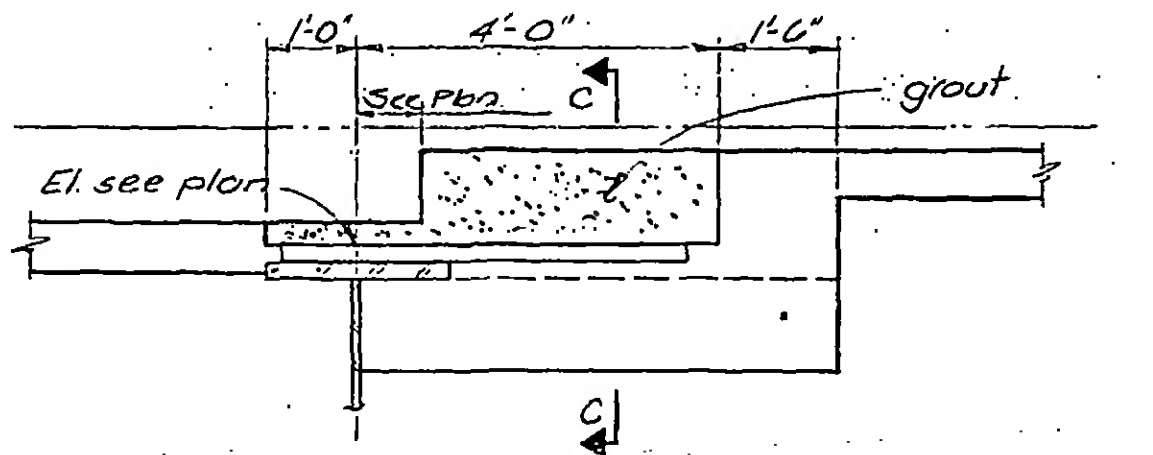
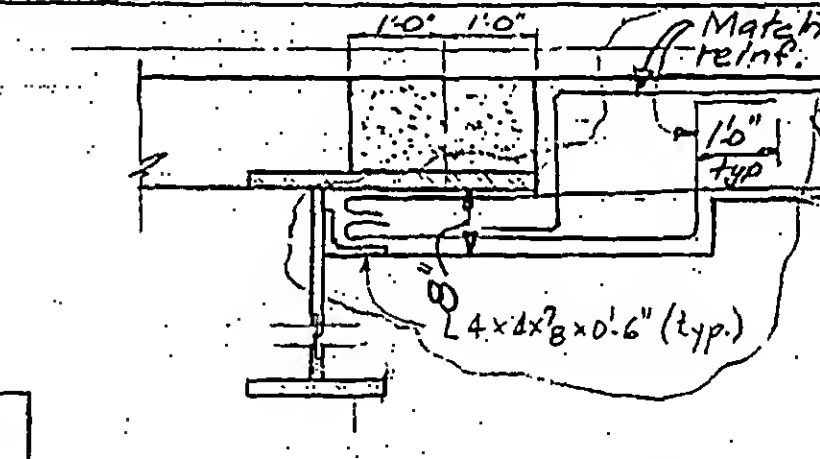
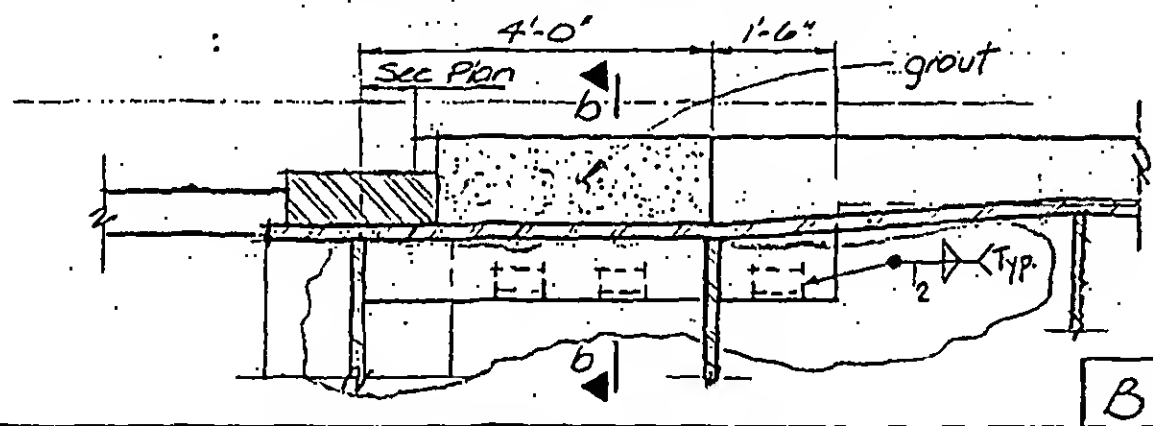
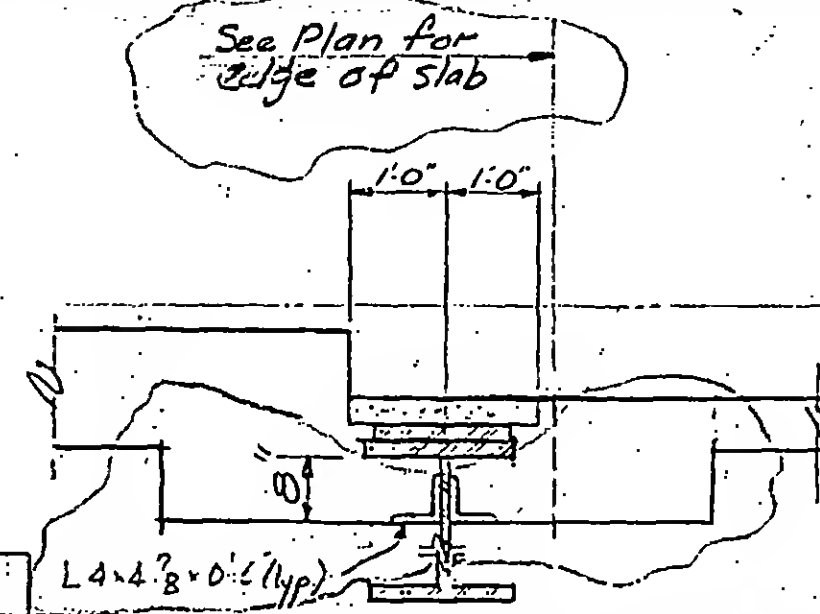
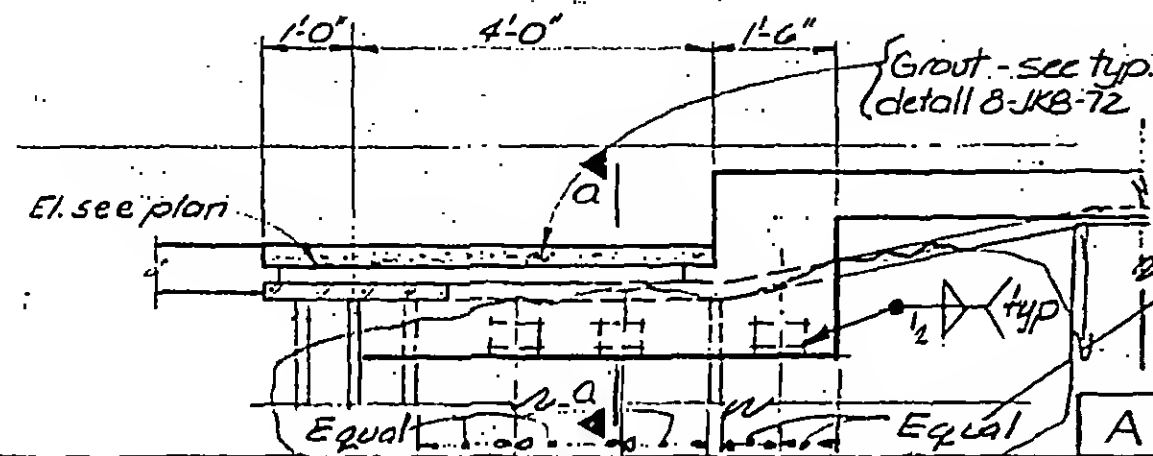
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TITLE SECTION - EL. 332

DATE 7-27-73

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9-6-73

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JTM

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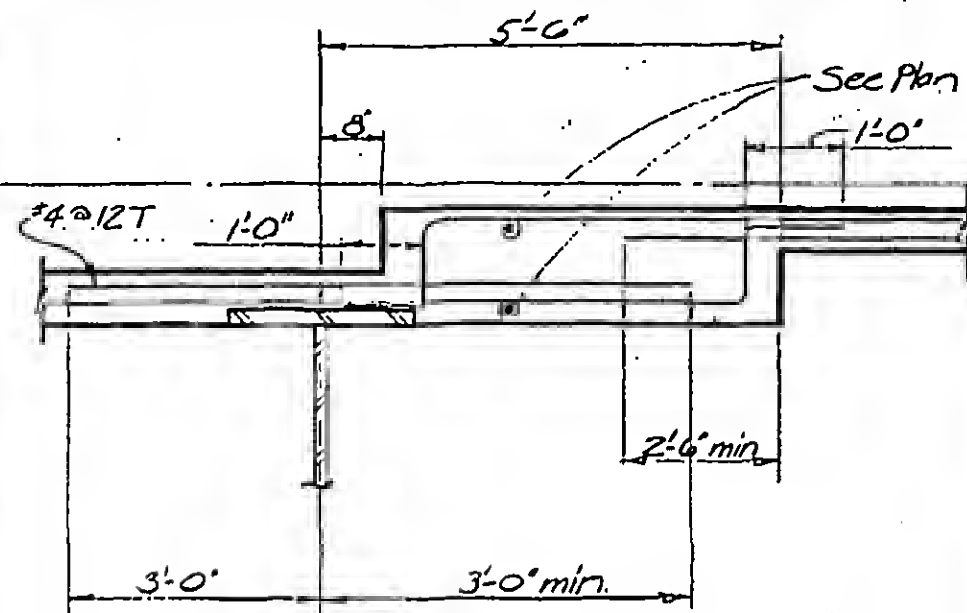
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TITLE SECTIONS EL. 332

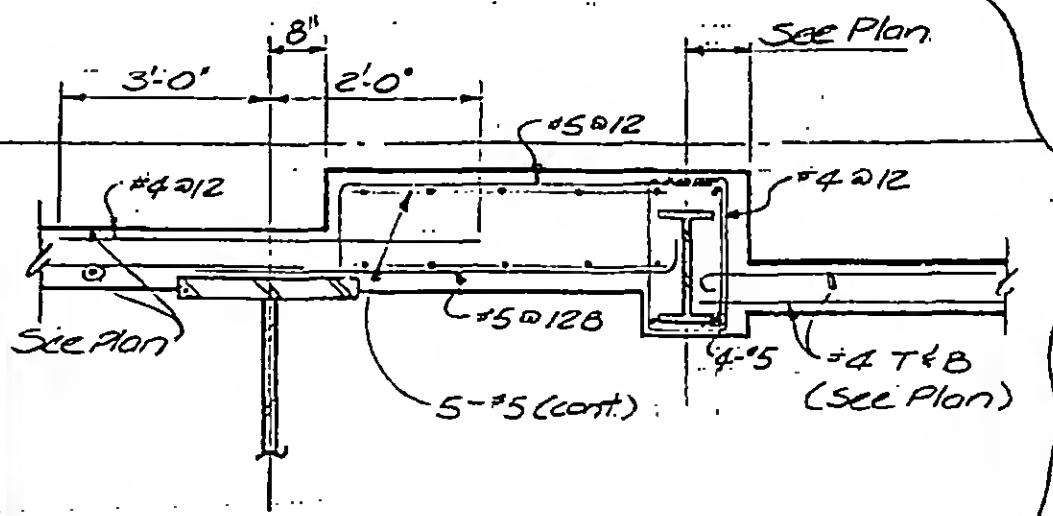
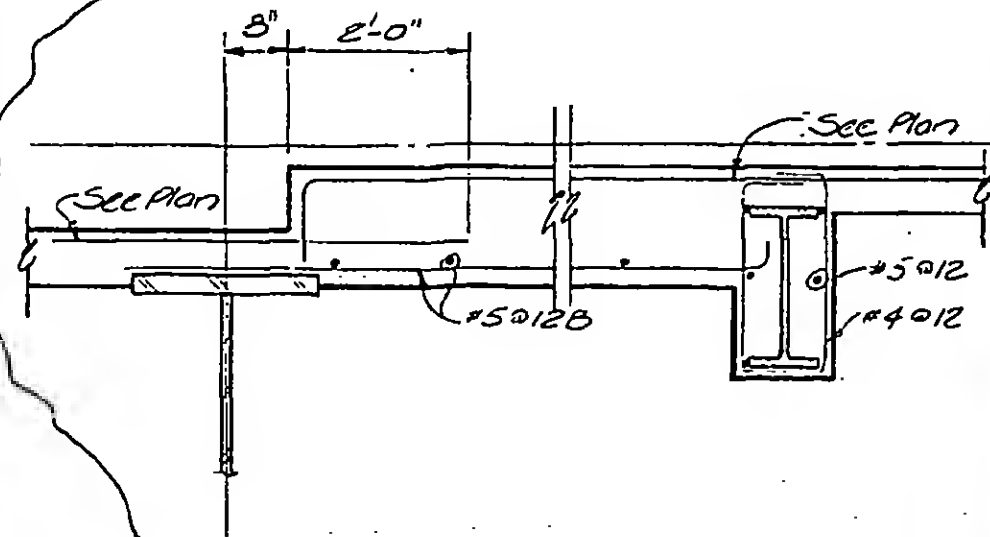
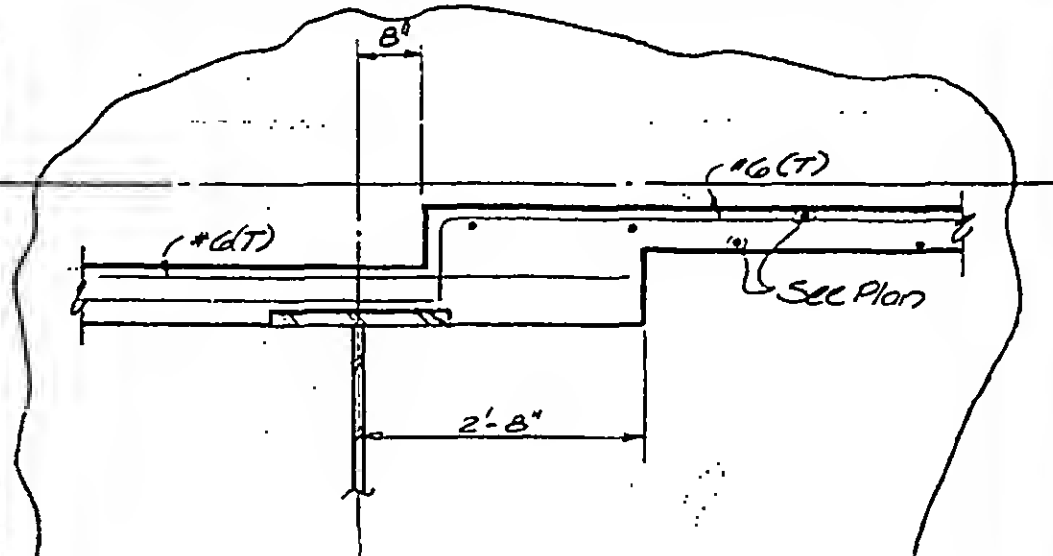
DATE 7-27-73

REVISIONS

10-11-73



E / F



DESIGNED WAB

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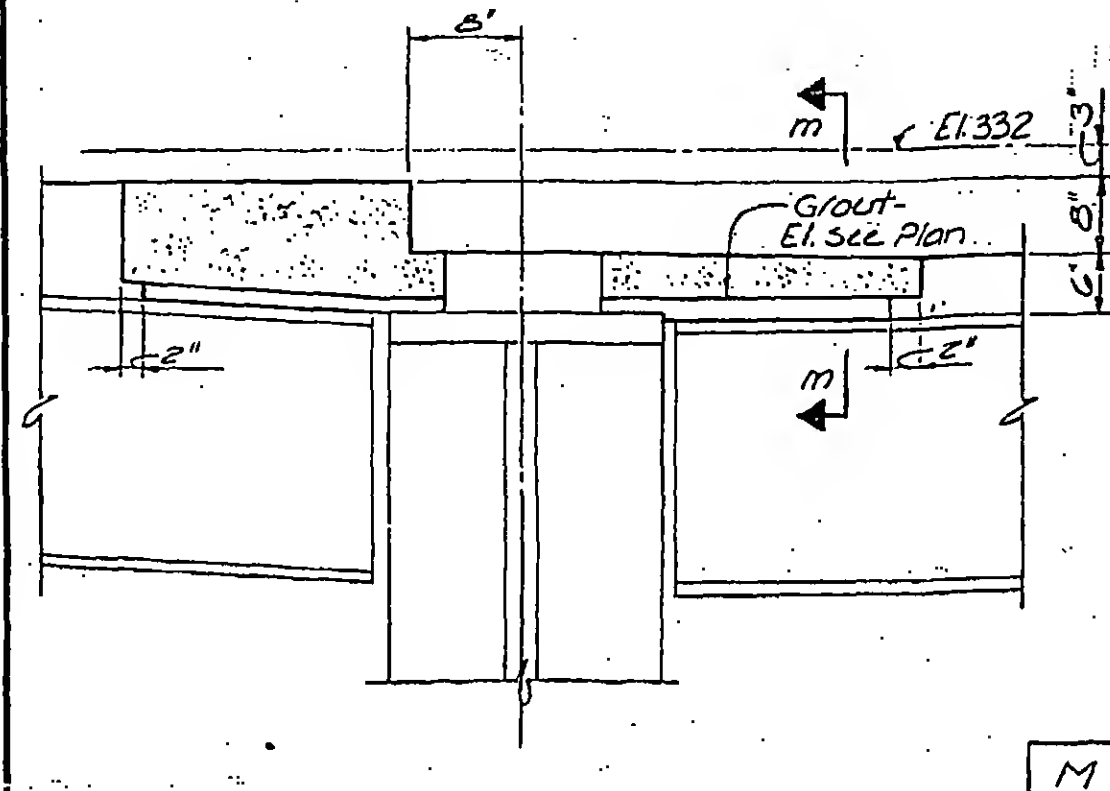
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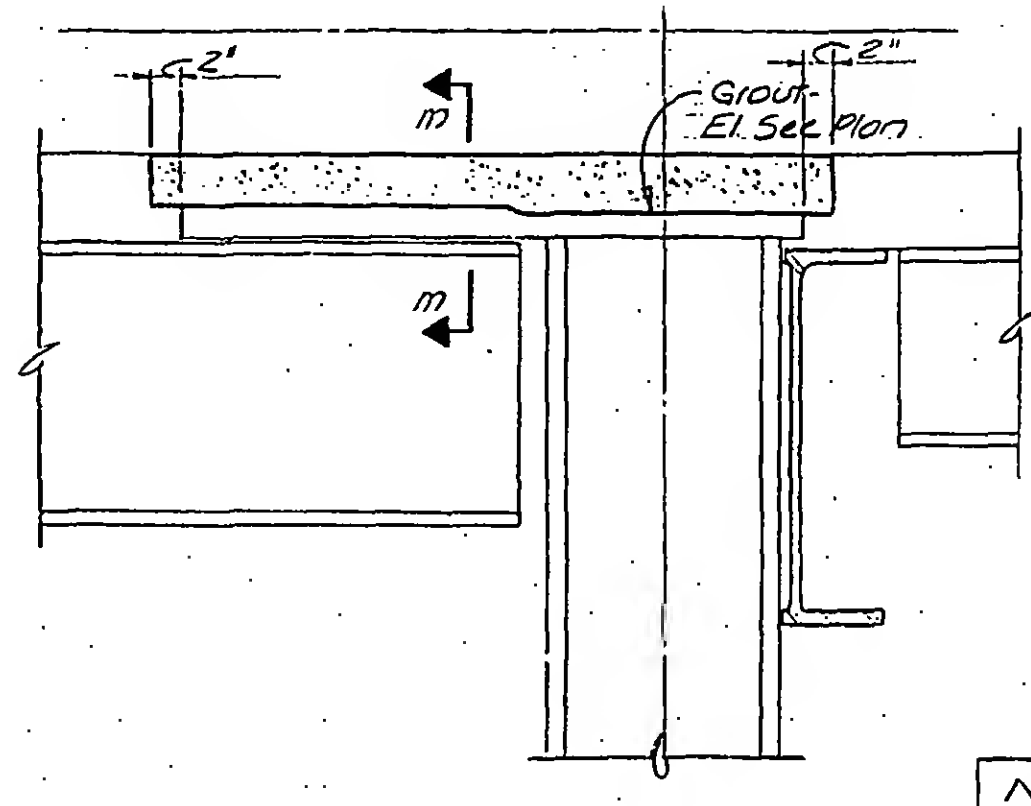
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DATE 10-11-73

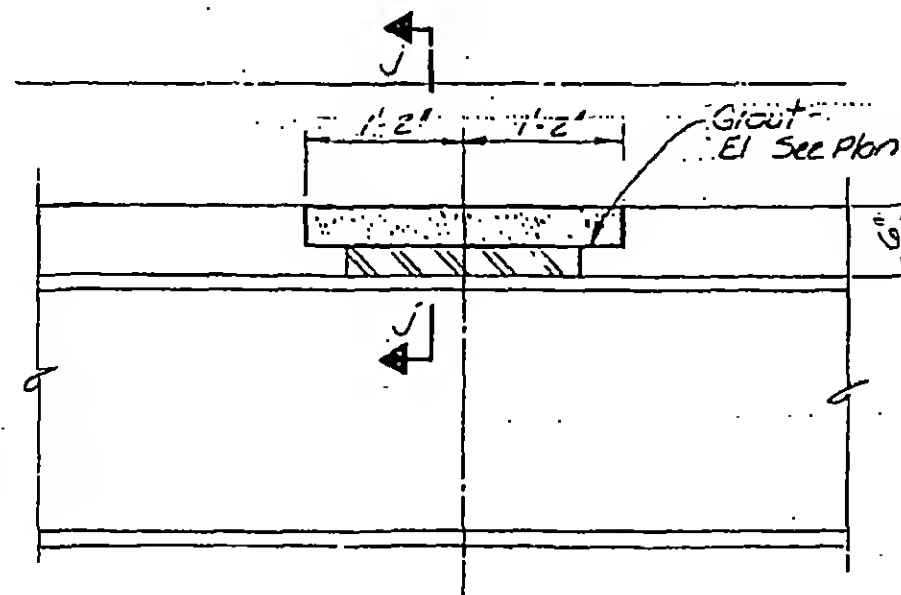
REVISIONS



M

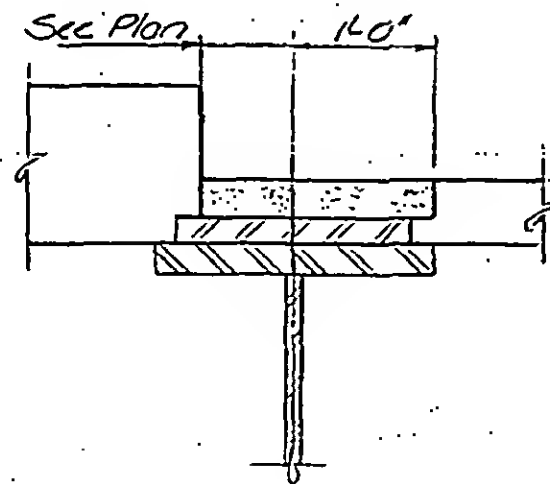


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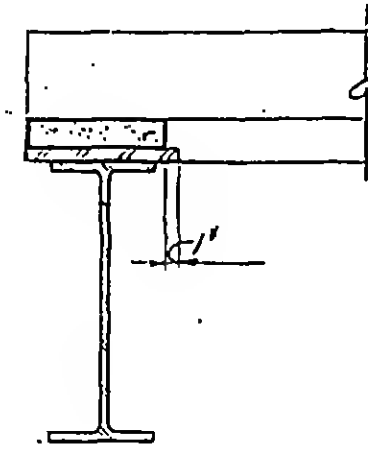


K

J



J



m

Note: For typical grout detail, see 8-JKB-72.1.

8-JKB-71.3



DESIGNED K.C.

DRAWN J.B.

REVIEWED

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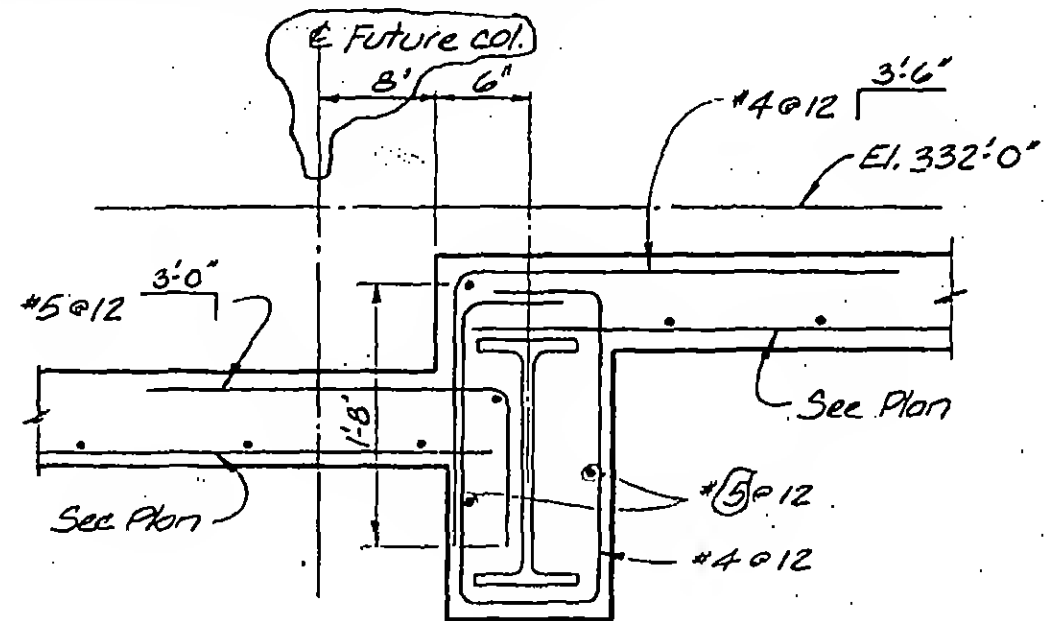
PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS - EL. 332

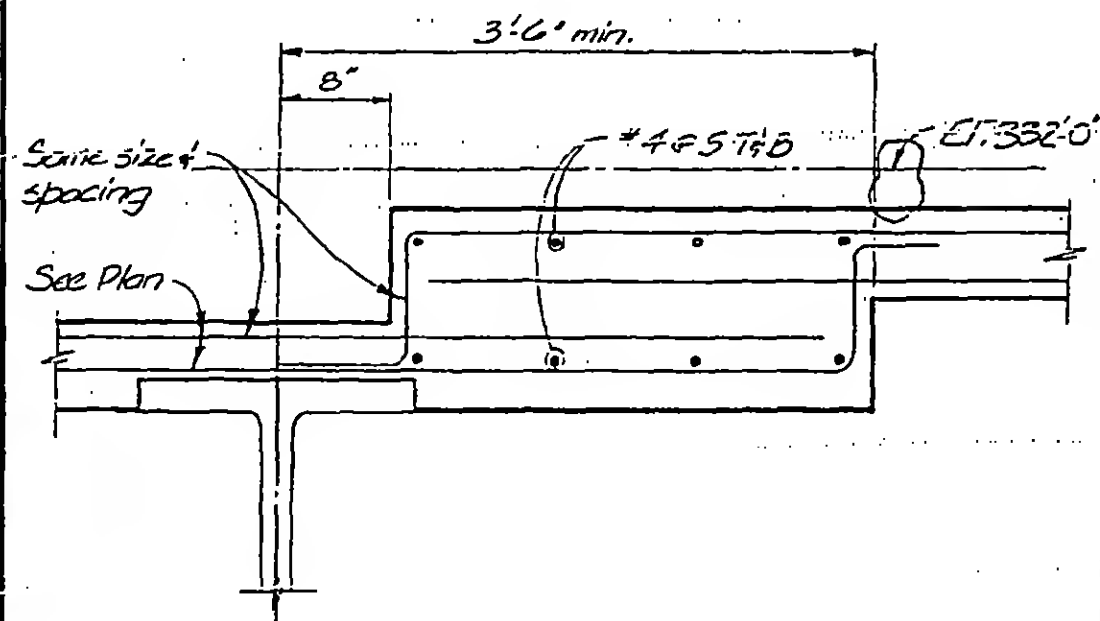
DATE 4-1-74

REVISIONS

4-5-74



Q



R

DESIGNED
J.T.M., W.A.B.DRAWN
J.B.REVIEWED
J.T.M.

B-JK8-71.4

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

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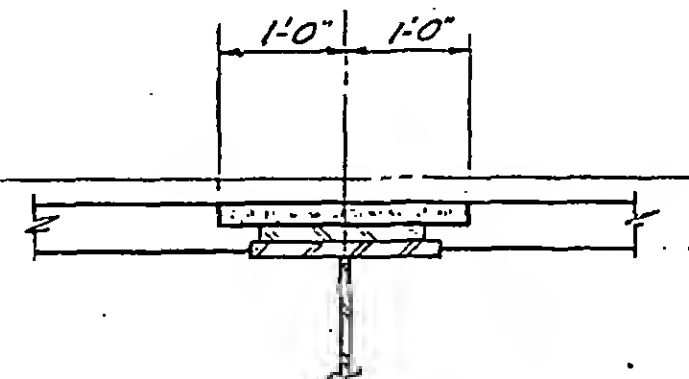
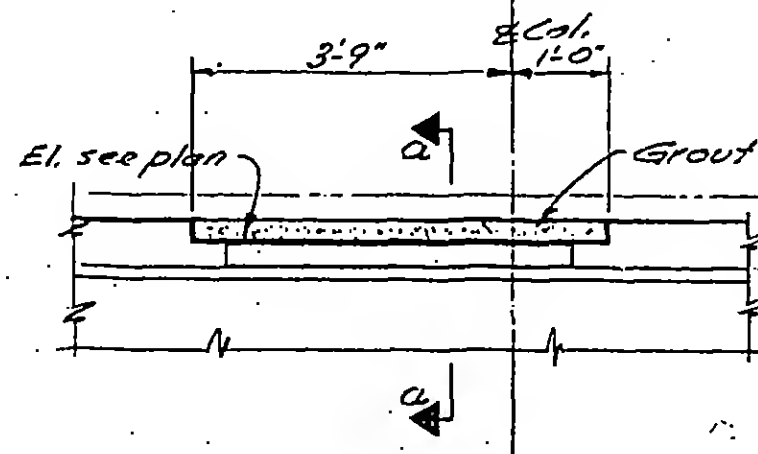
PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS - EL. 332

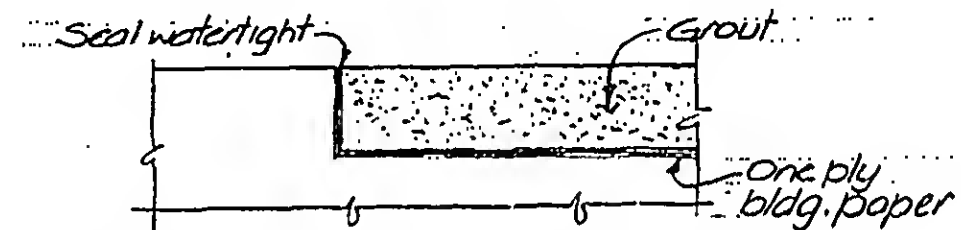
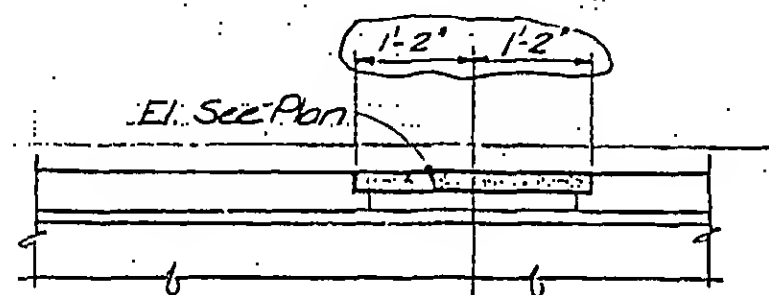
DATE 7-27-73

REVISIONS

10-11-73



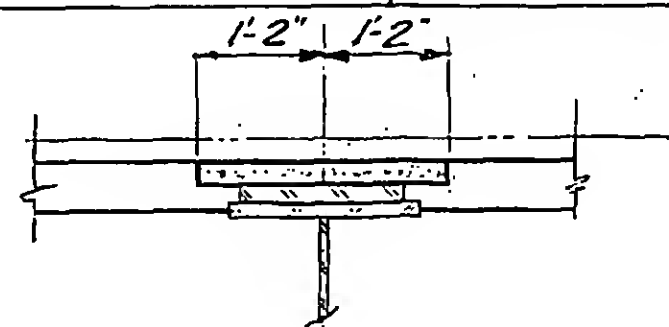
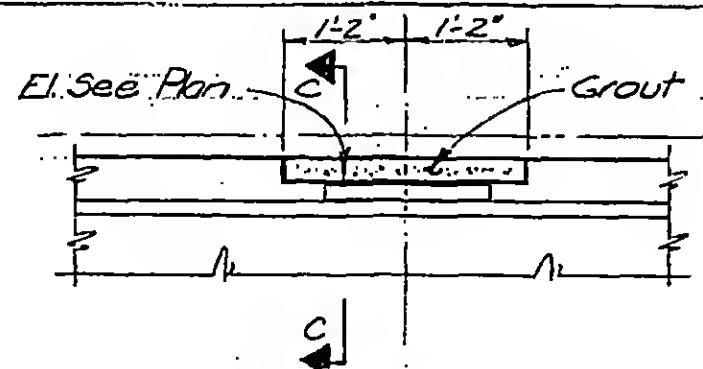
A a



Note: Install this detail when instructed by the Engineer
Typical of Grout 8-JKB-71 & 72

B

TYPICAL GROUT DETAIL



C

C

8-JKB-72.1



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DRAWN TR

REVIEWED JTM

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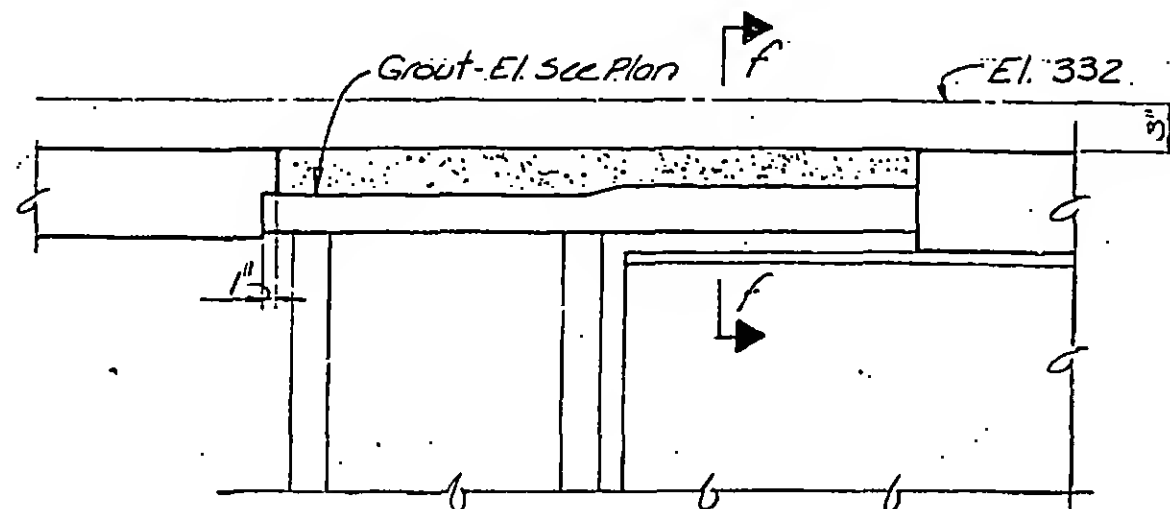
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

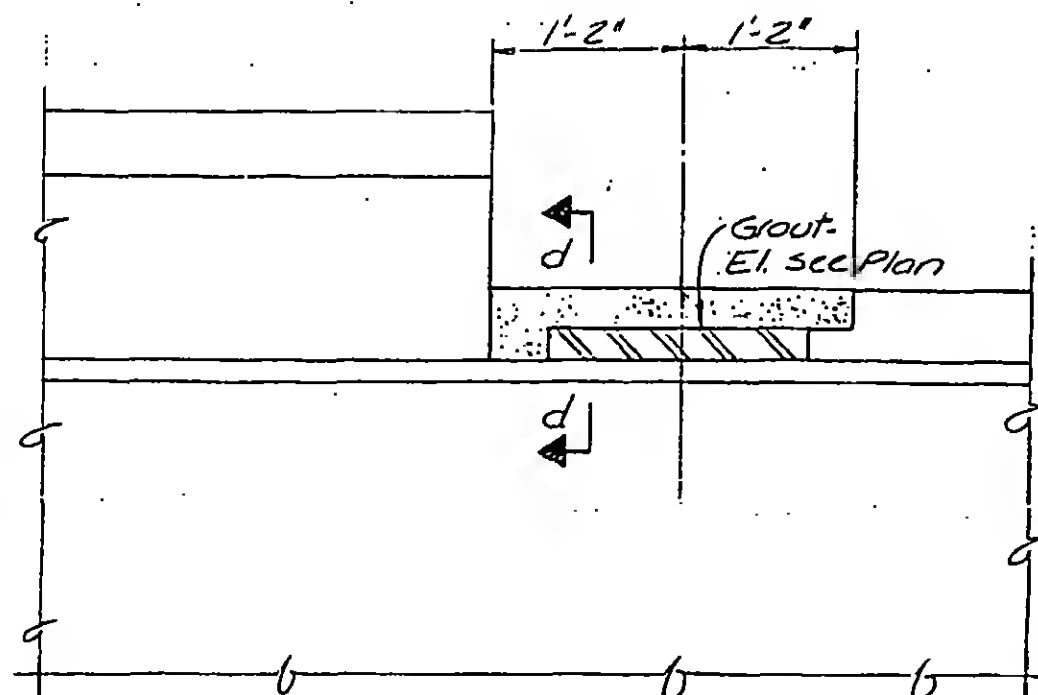
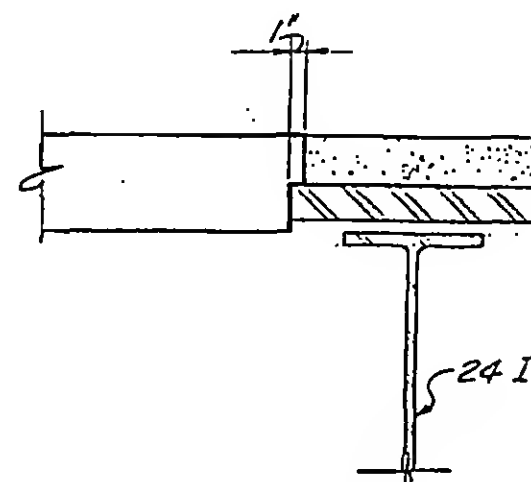
TITLE SECTIONS - EL. 332

DATE 10-11-73

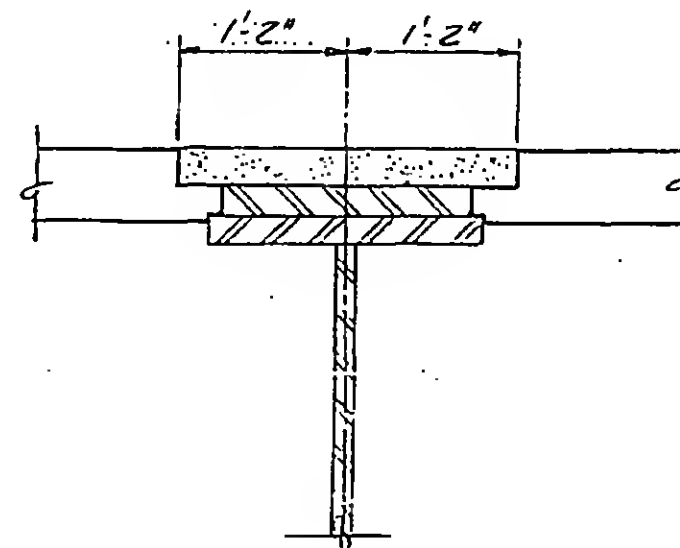
REVISIONS



F f



D d



B-JK8-72.2



DESIGNED K.C.

DRAWN J.B.

REVIEWED

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

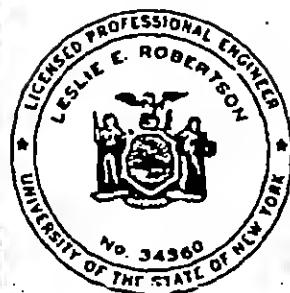
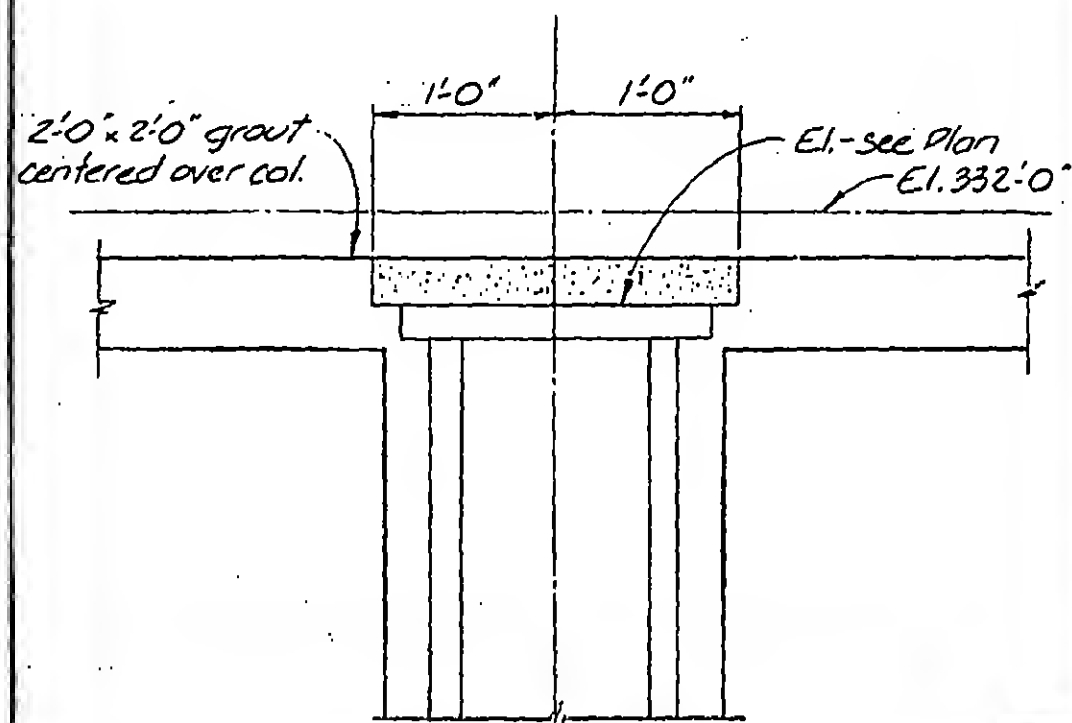
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS - EL. 332

DATE 4-5-74

REVISIONS



DESIGNED J.T.M.

DRAWN J.B.

REVIEWED W.B.

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

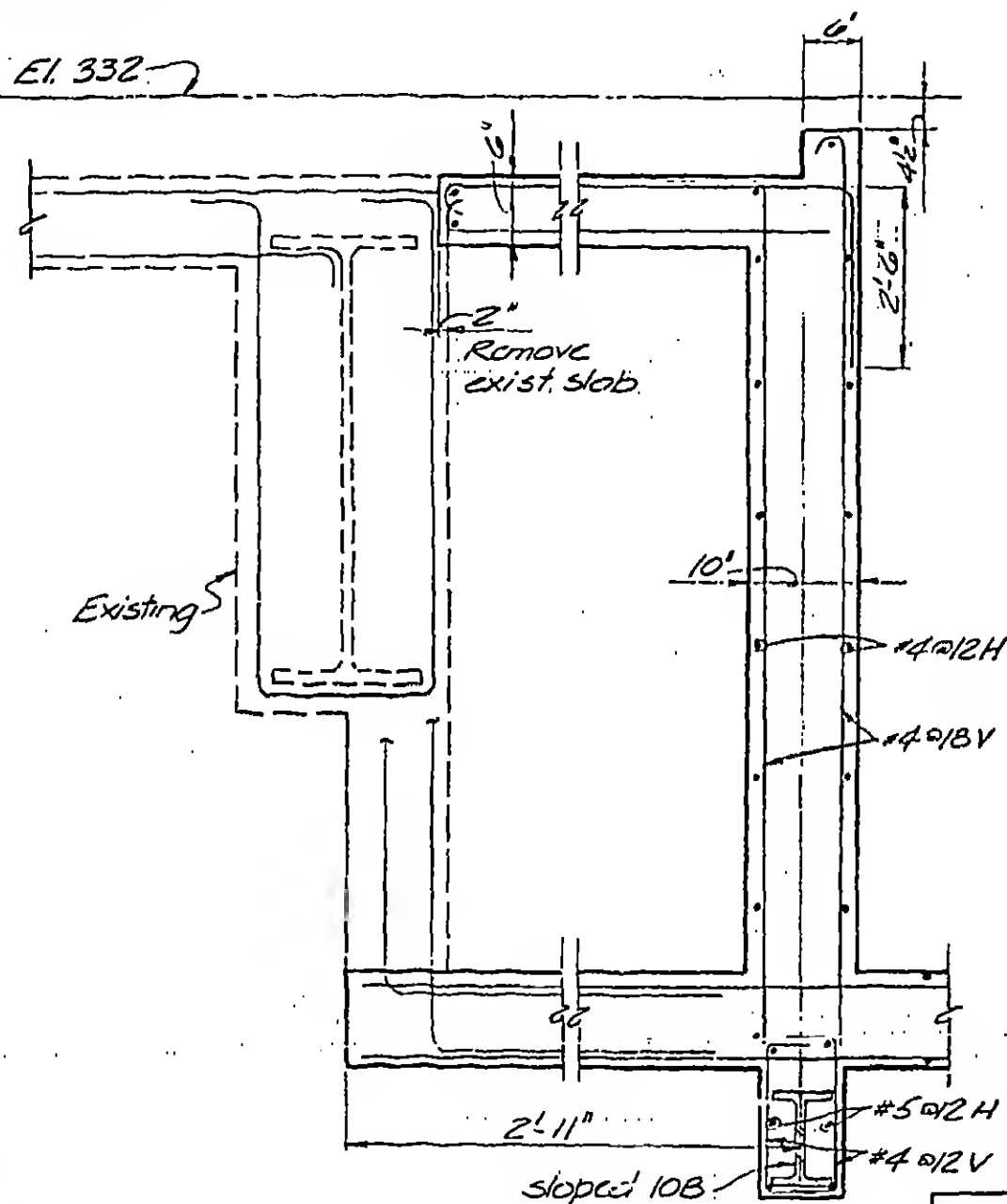
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DATE 11-17-72

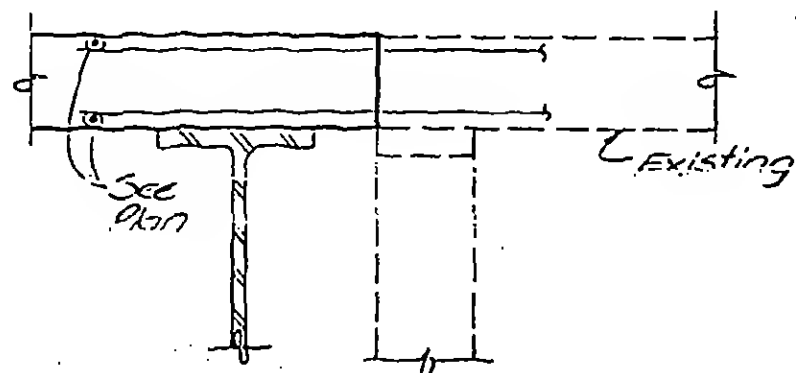
REVISIONS

10-11-73
Gen Rev.

EL. 332

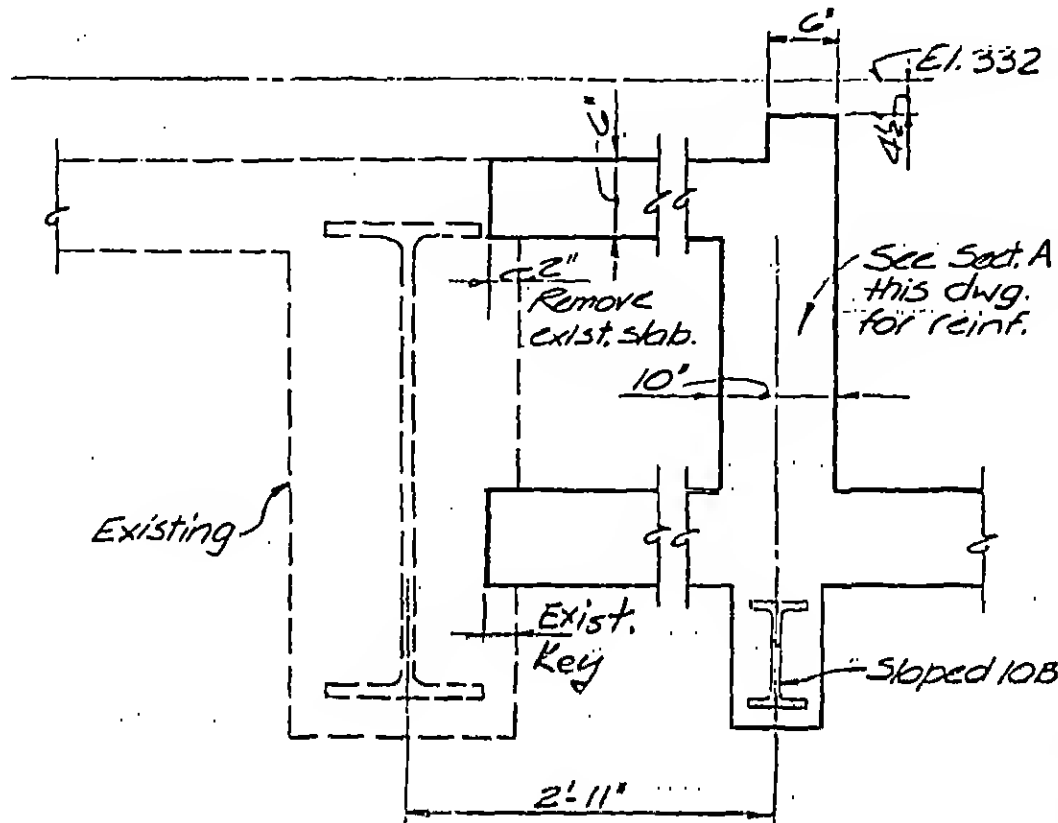


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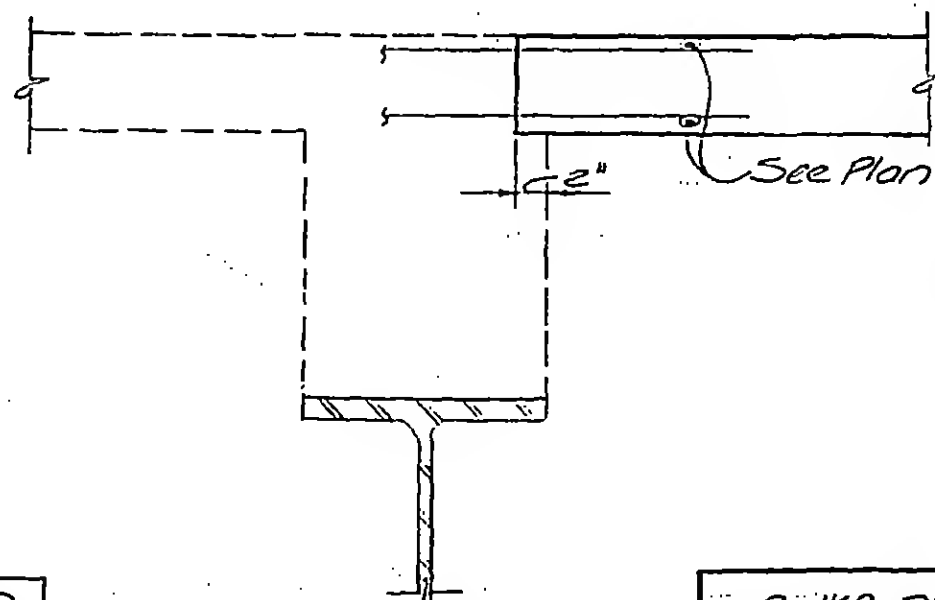


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B



B-JKB-73.1



DESIGNED WAD

DRAWN J.B.

REVIEWED

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

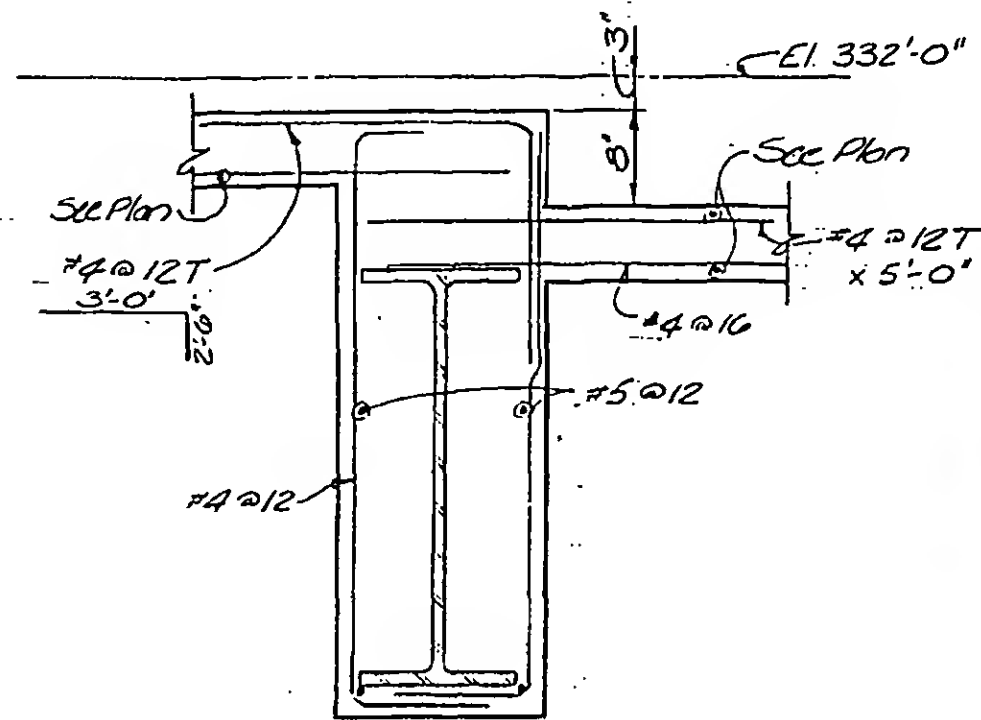
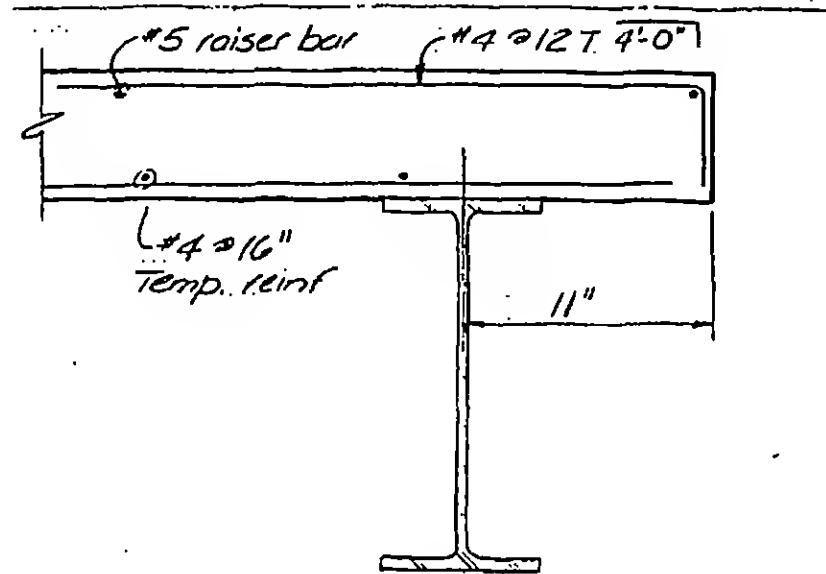
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

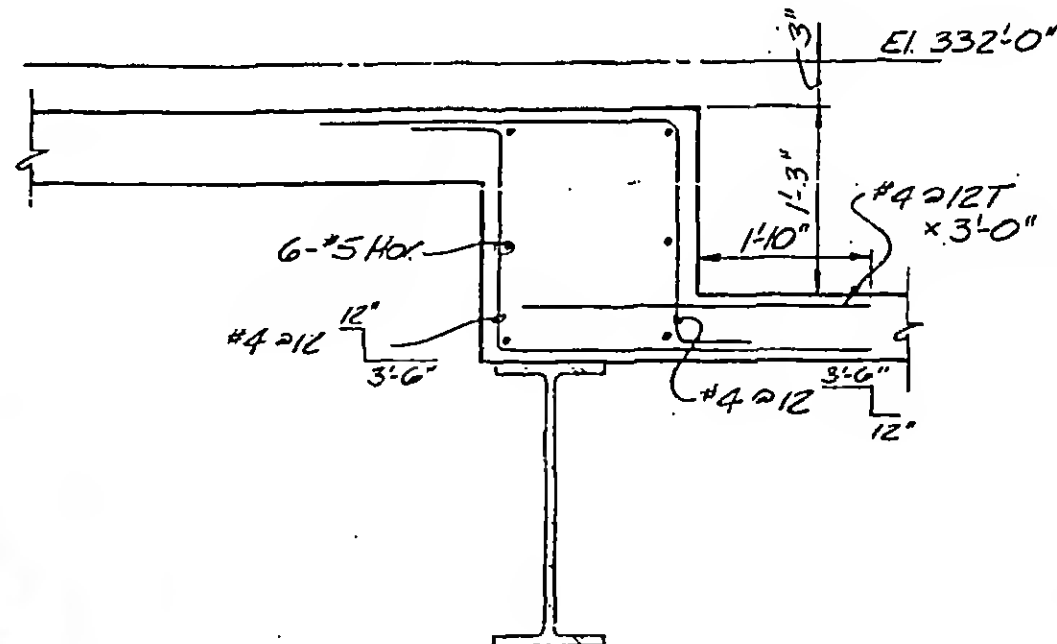
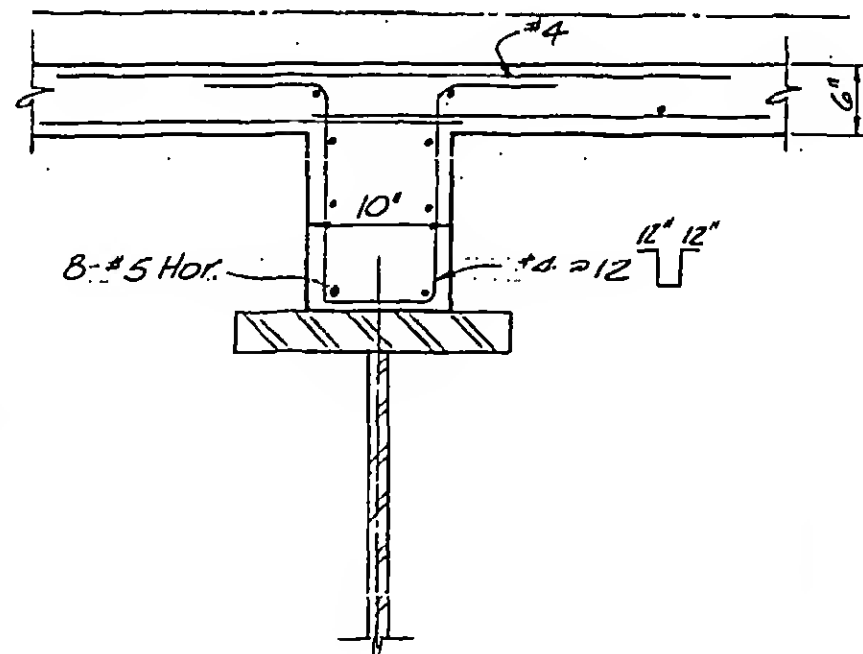
TITLE SECTIONS - EL. 332

DATE 10-11-73

REVISIONS



E F



G H

B-JKB-73.2



DESIGNED K.C.

DRAWN J.B.

REVIEWED

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

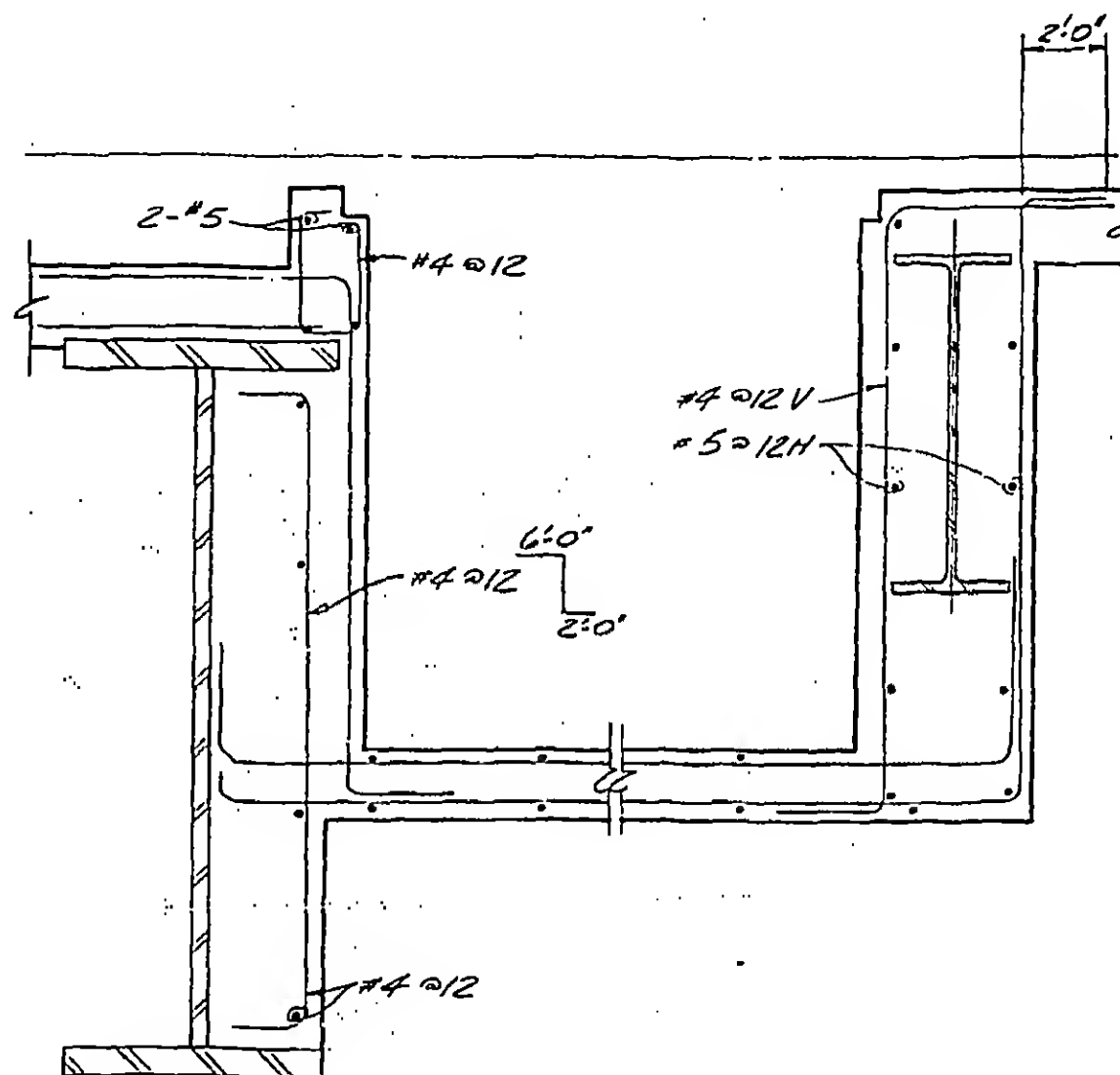
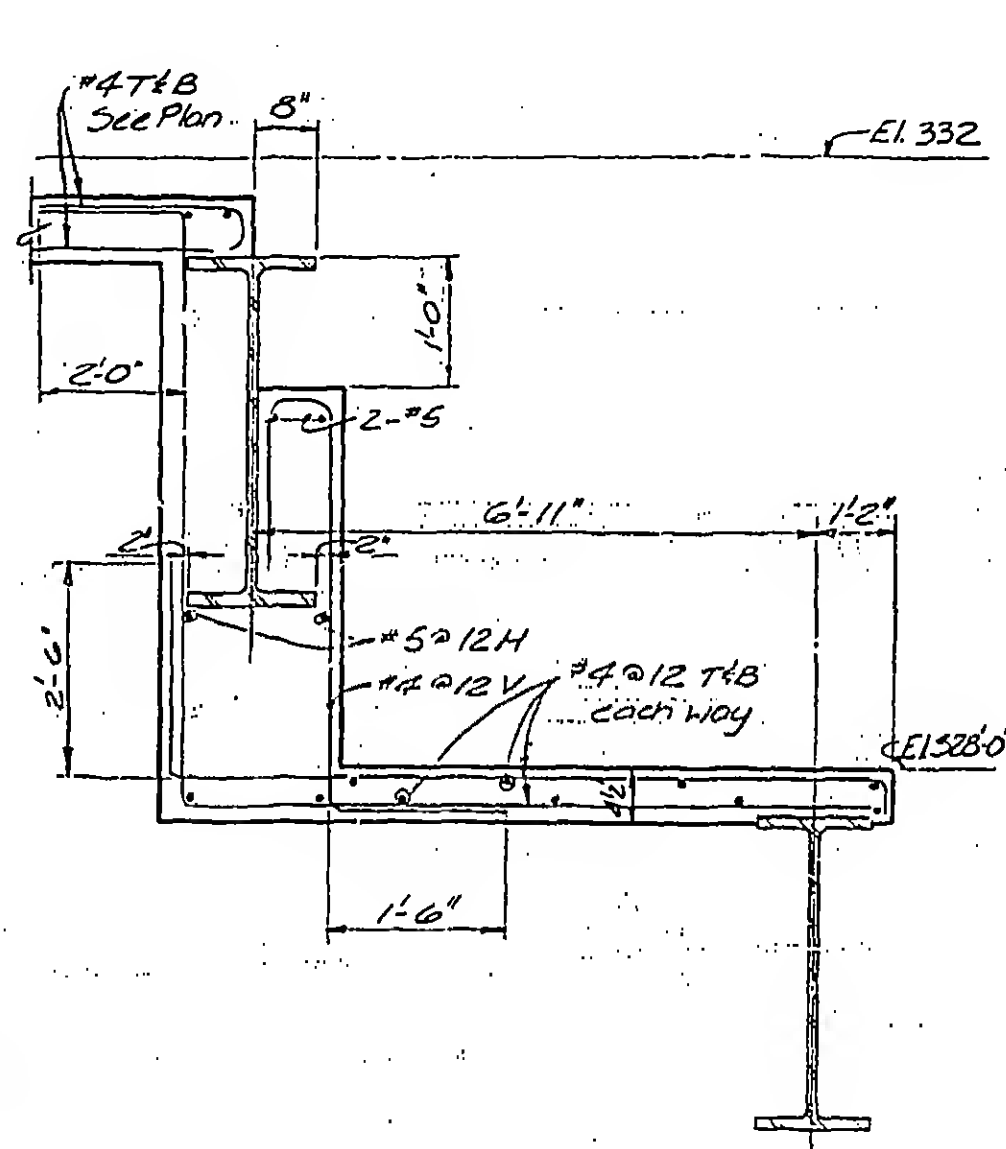
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS - EL. 332

DATE 10-11-73

REVISIONS



DESIGNED K.C.

DRAWN J.B.

REVIEWED

J K

6-JK8-73.3

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

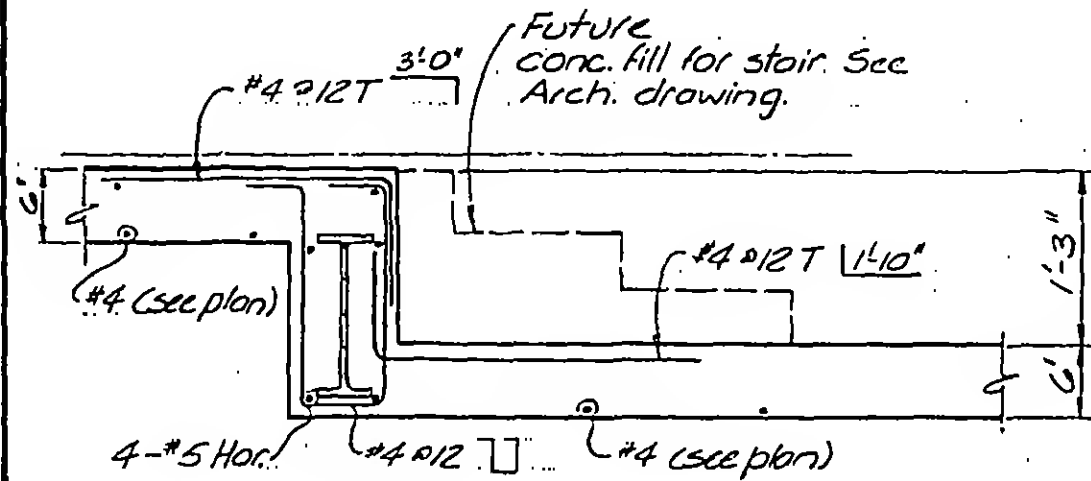
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

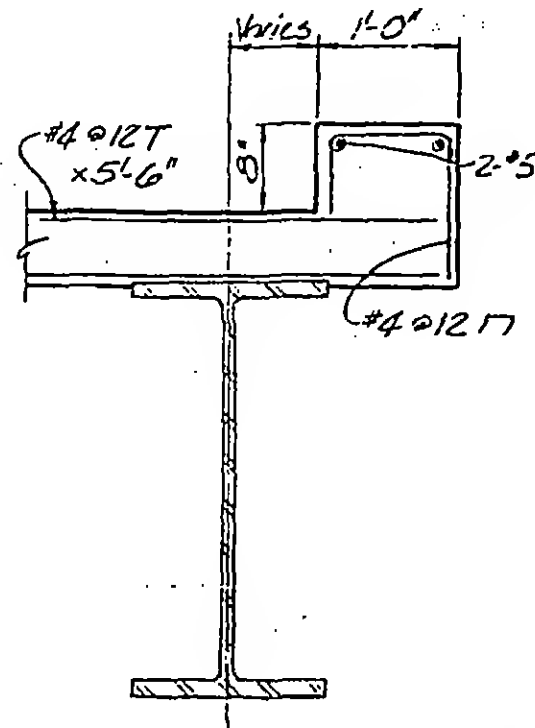
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DATE 10-11-73

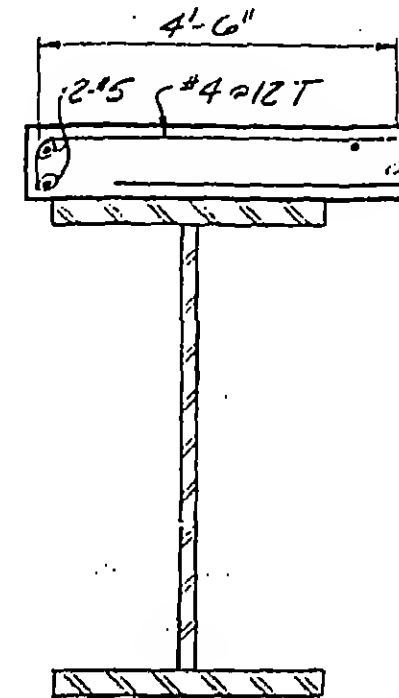
REVISIONS



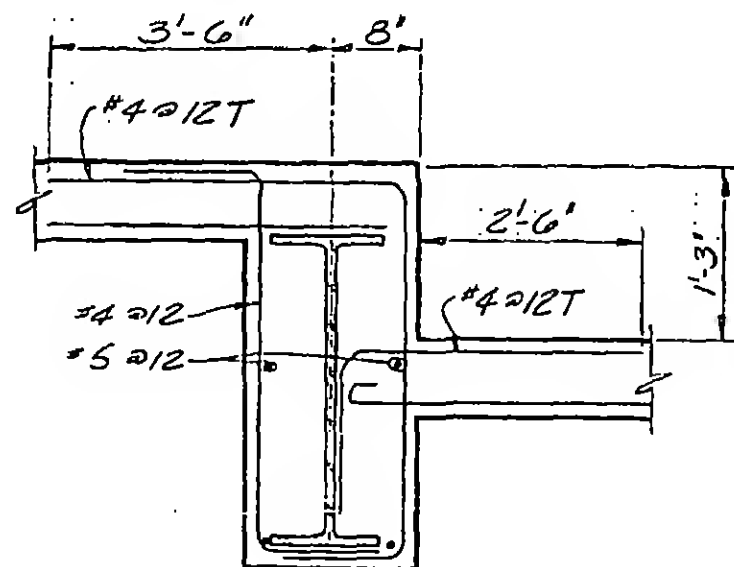
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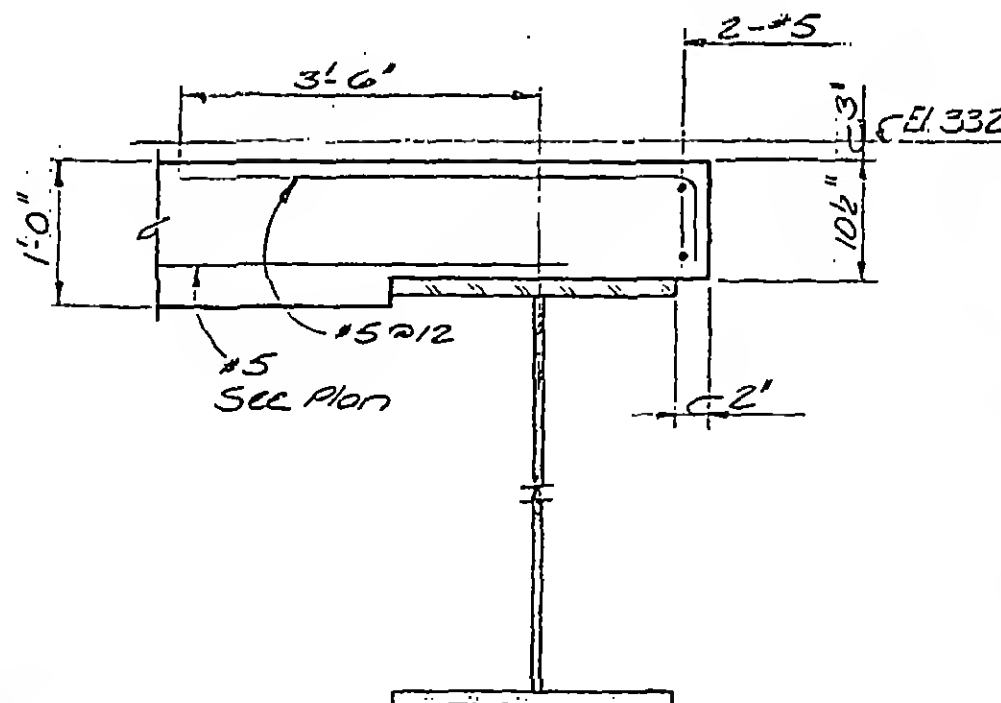
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Q



N R



B-JK8-73.4



DESIGNED K.C.

DRAWN J.B.

REVIEWED

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

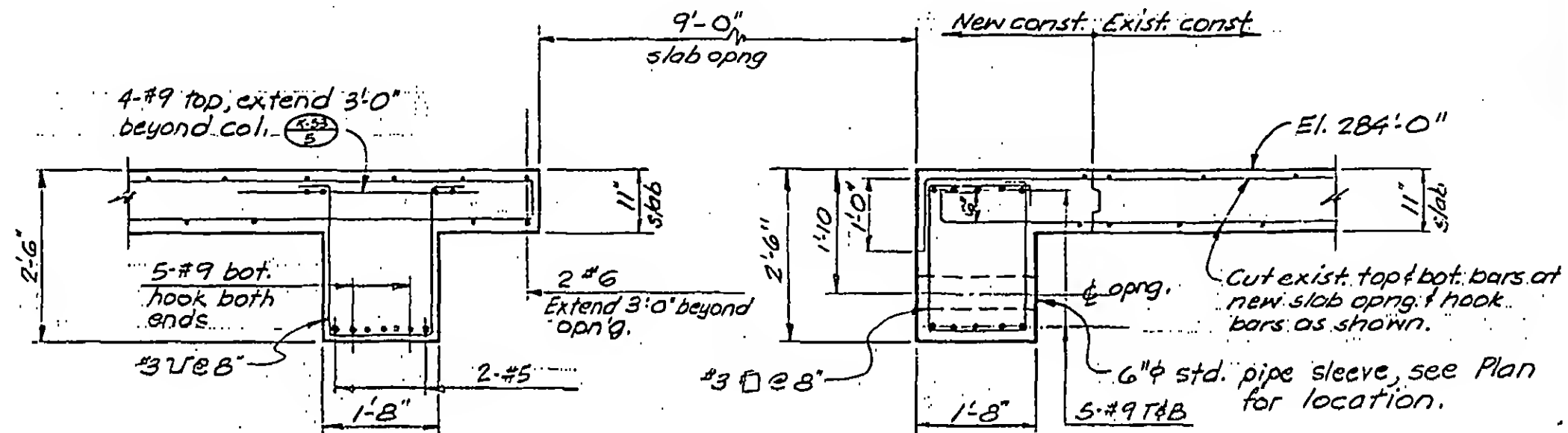
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

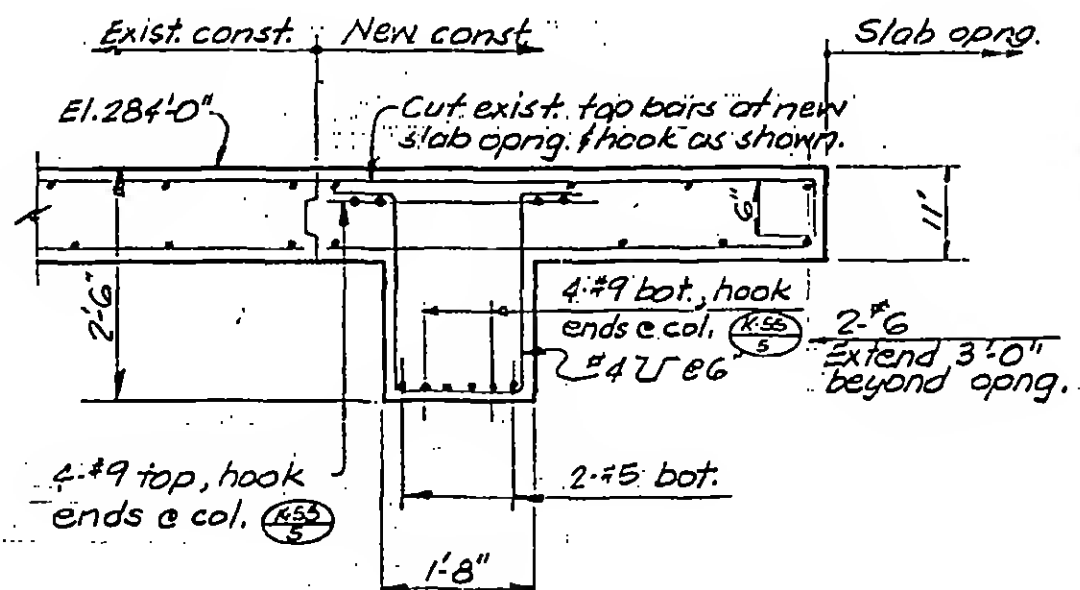
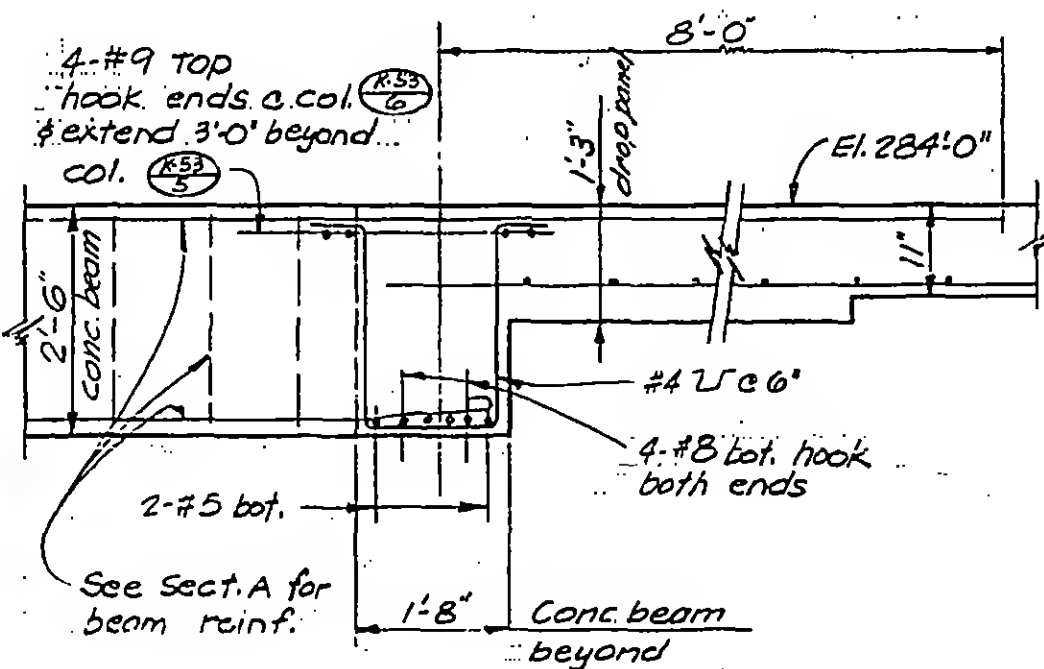
TITLE SECTIONS AT AUTO LIFT - EL. 284'-0"

DATE 1-12-73

REVISIONS



A



B

C

8-JK8-75.1



DESIGNED D.S.

DRAWN T.R.

REVIEWED

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

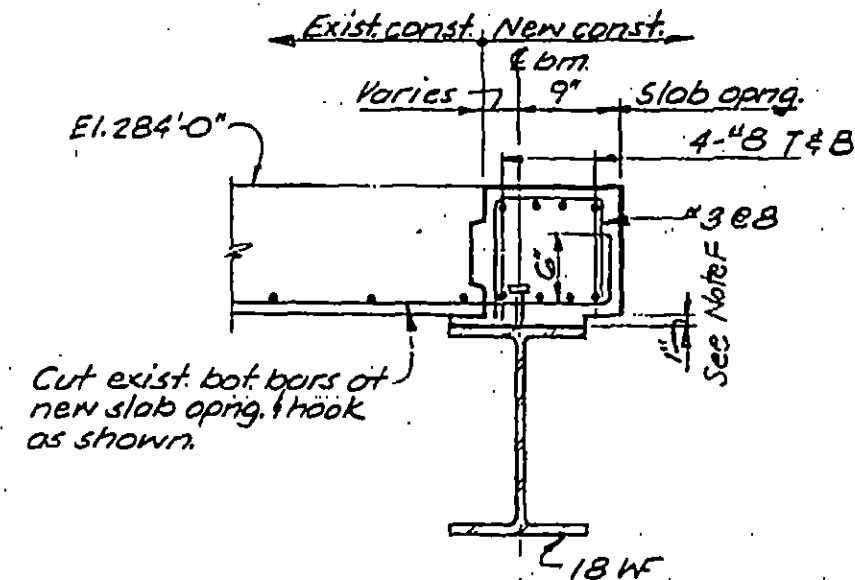
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

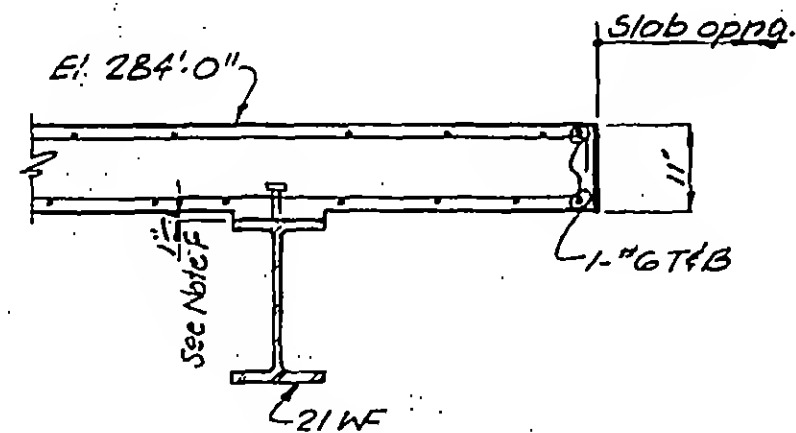
TITLE SECTIONS AT AUTO LIFT - EL. 284'-0"

DATE 1-12-73

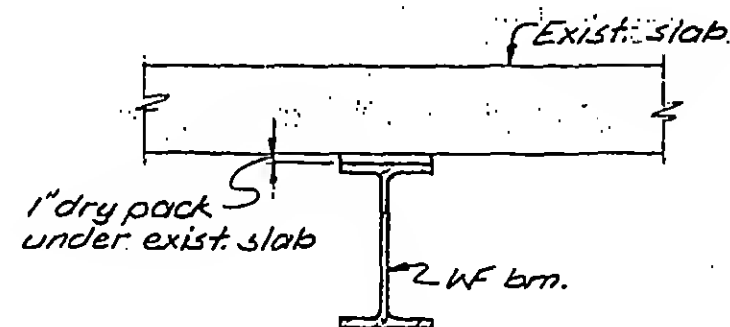
REVISIONS



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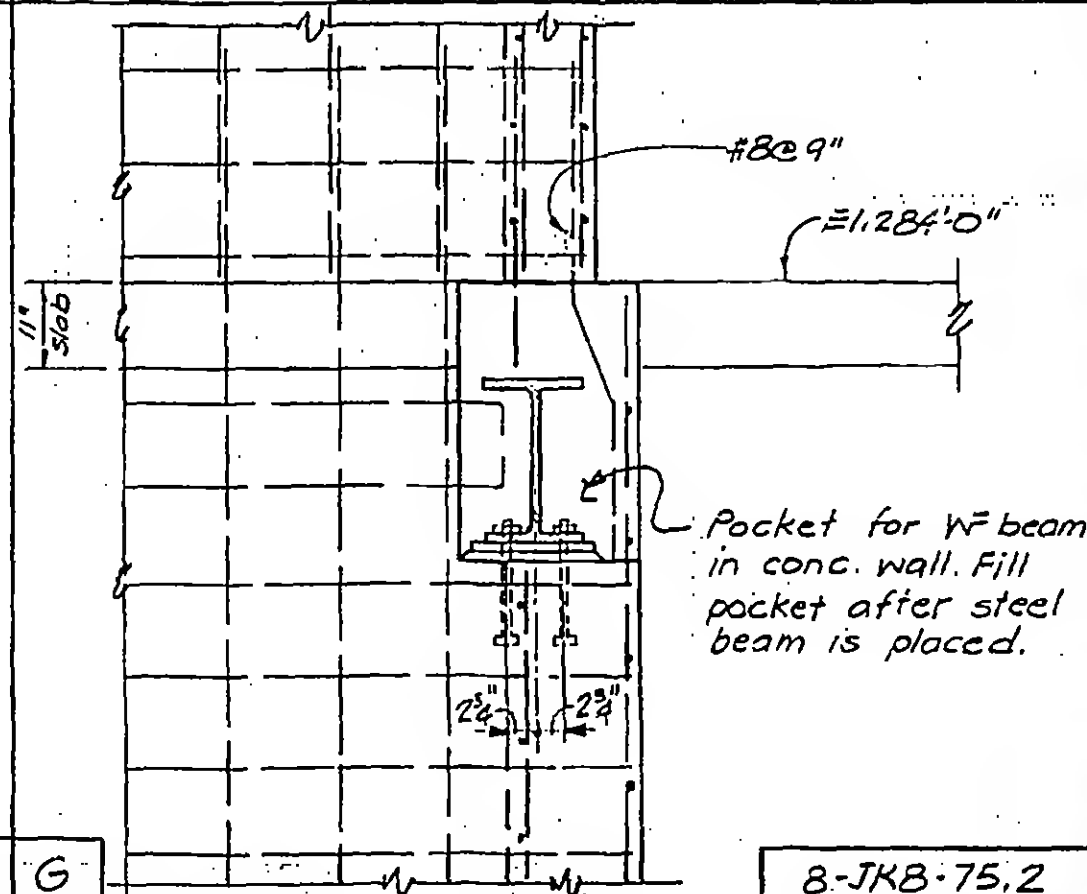
Alternate Detail if Steel Beams Are Installed After Concrete Slab Is In Place

Note F:

If this method is used for const., slab must be kept shored adequately along locations of future WF beams

F

G



Pocket for WF beam in conc. wall. Fill pocket after steel beam is placed.

8-JKB-75.2



DESIGNED D.S.

DRAWN T.R.

REVIEWED

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

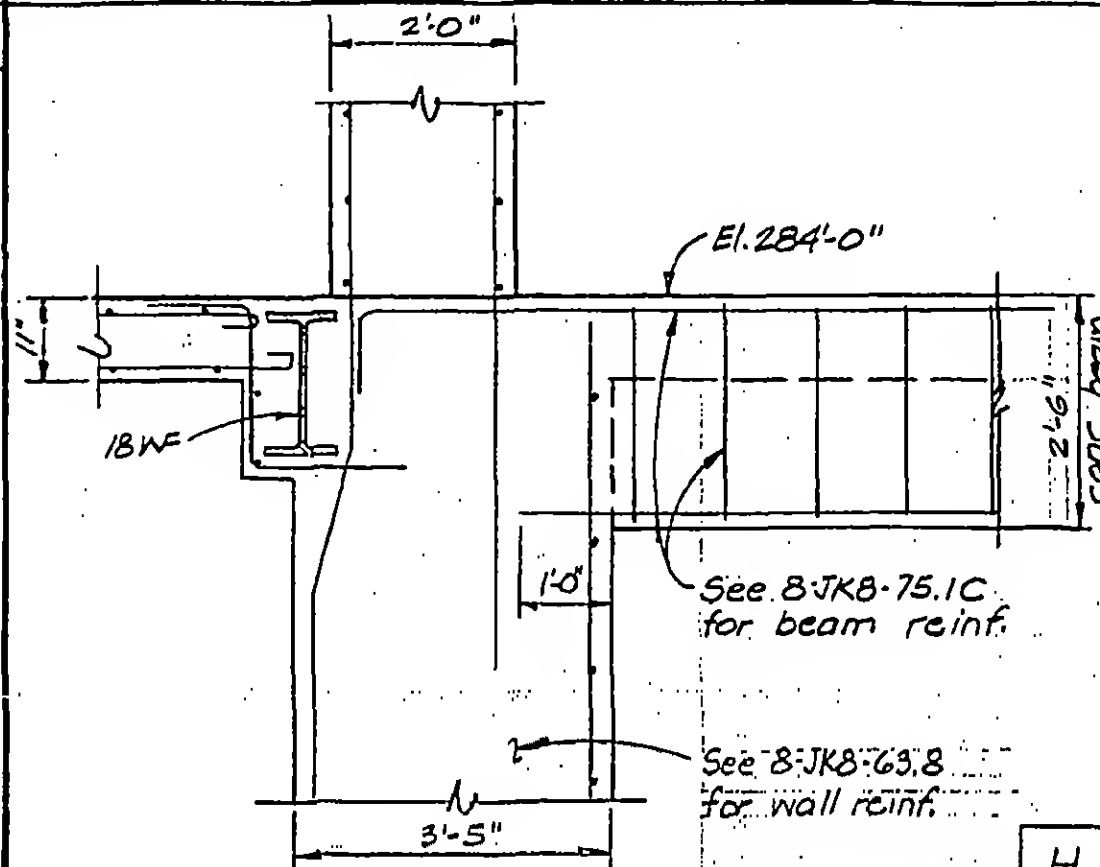
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT AUTO LIFT - EL. 284'-0"

DATE 1-12-73

REVISIONS



DESIGNED D. S.

DRAWN *Phibbs*

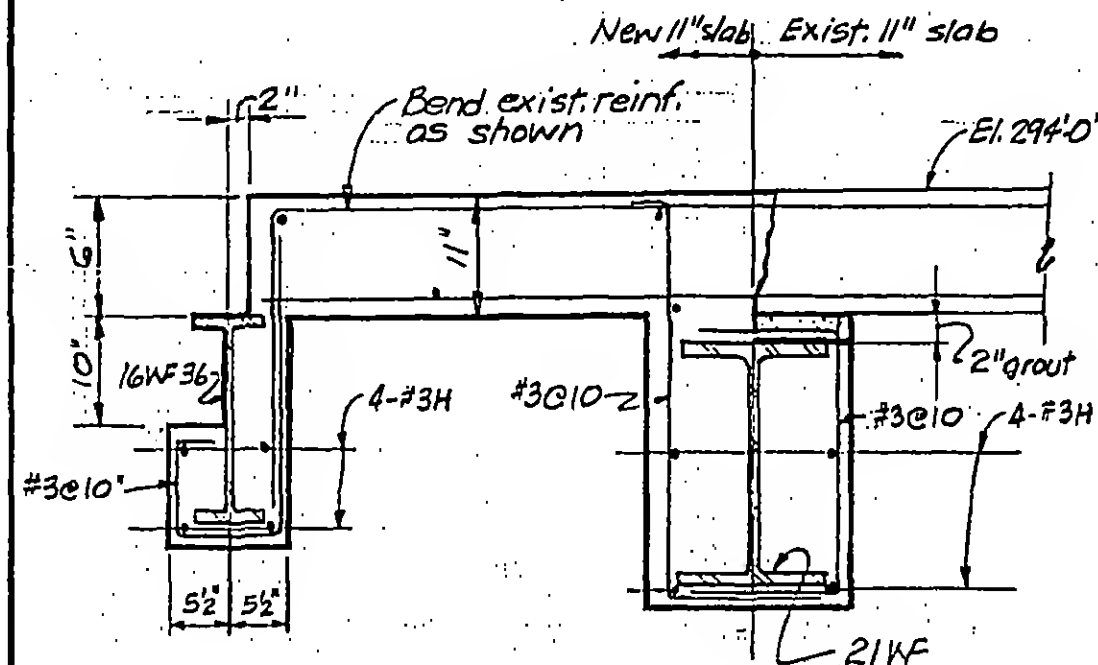
REVIEWED

8-JK8-75.3

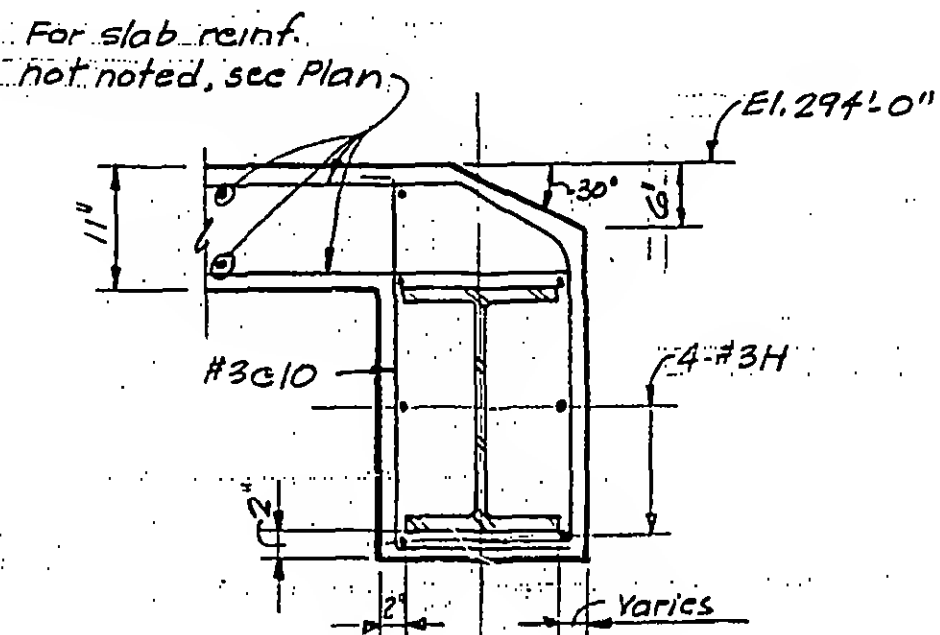
Structural & Civil Engineers

PROJECT	THE WORLD TRADE CENTER	TITLE	SLAB SECTIONS AT ESCALATOR - EL 294'0"	DATE	3-15-73
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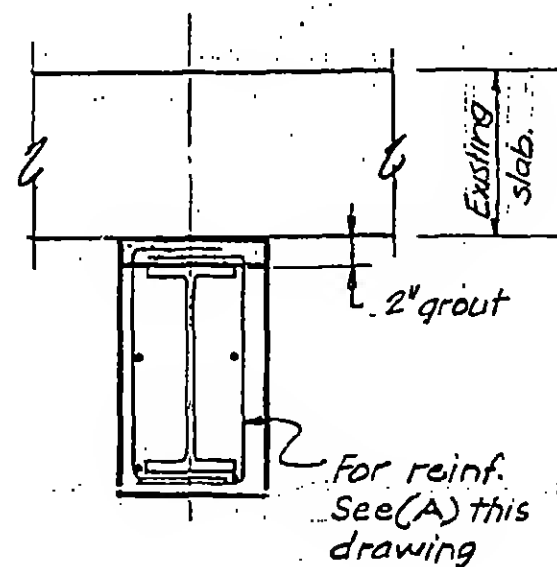
REVISIONS



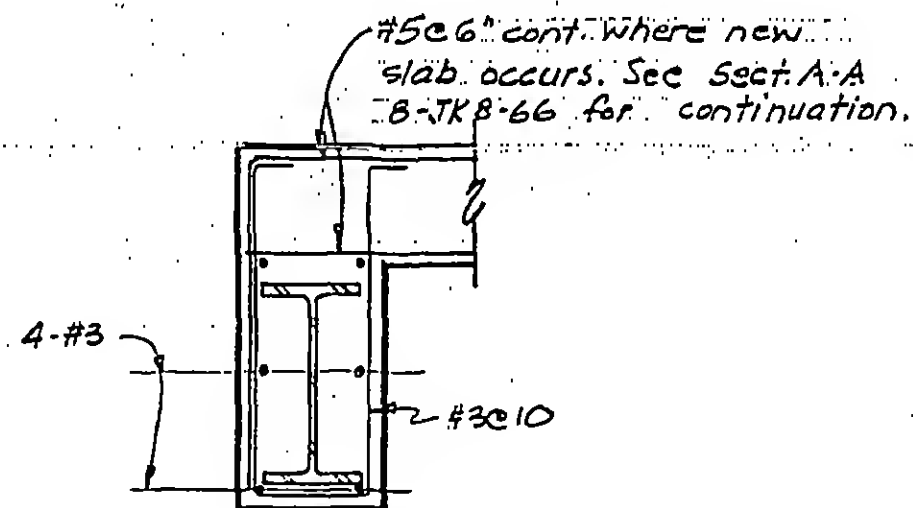
A



A



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Note: Grout (dry pack) between existing slab and steel beam.
Grout to be f'c = 5000 psi

8-JK8-80



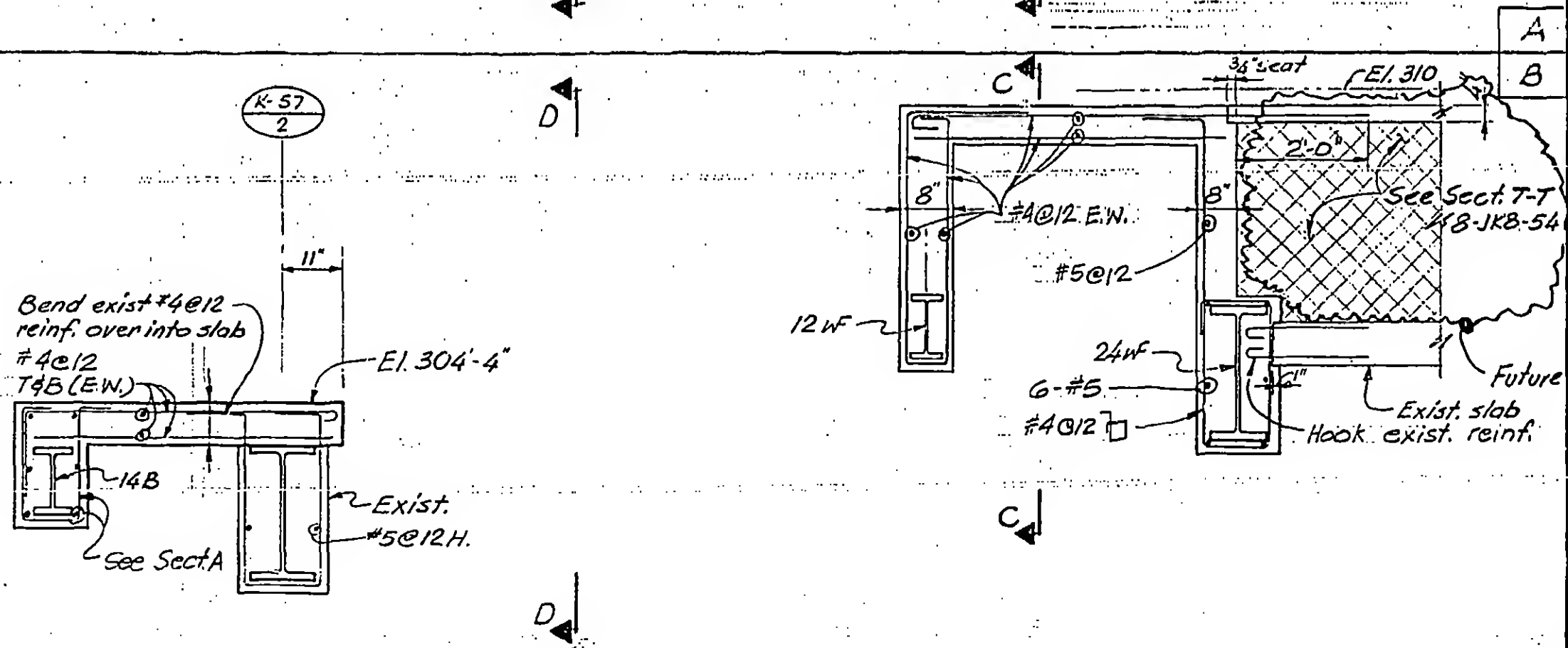
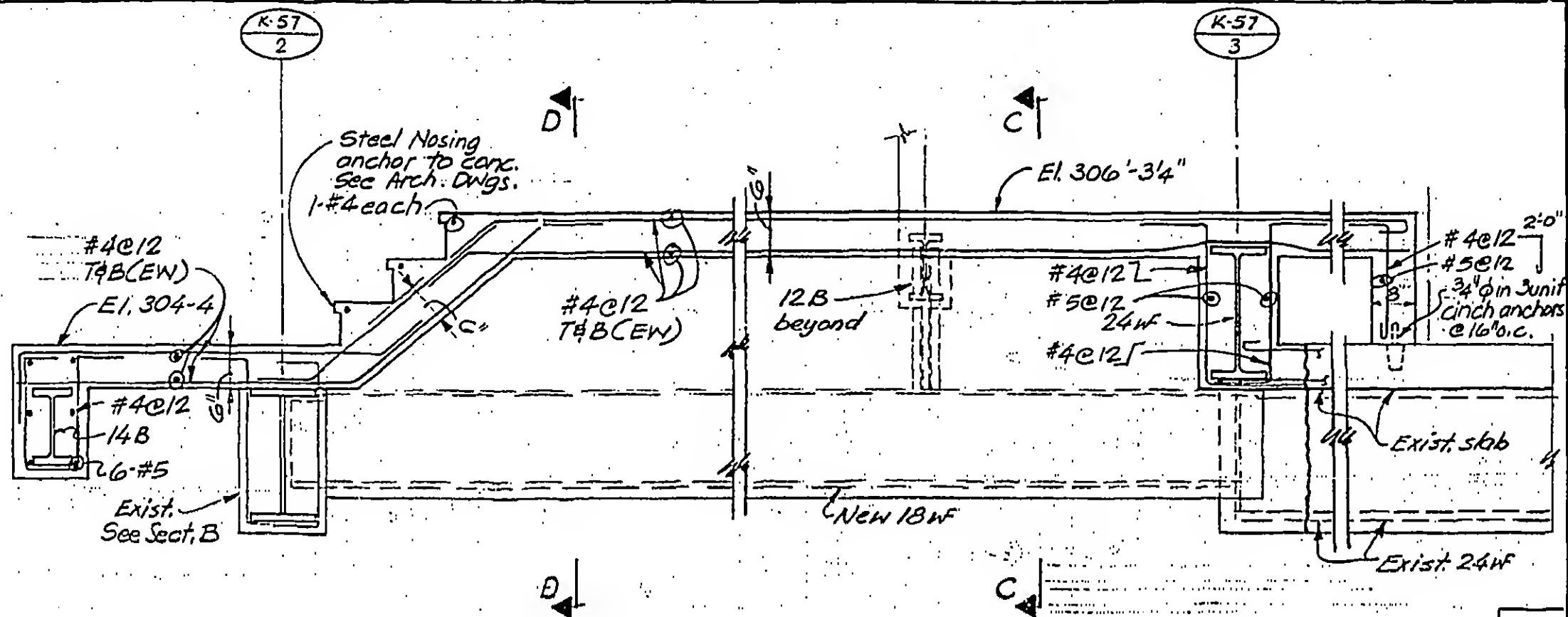
DESIGNED

K.C.

DRAWN
Phil Dwyer

DECLARATION

REVISIONS



DESIGNED

DRAWN

REVIEWER

8-JK8-81.1

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

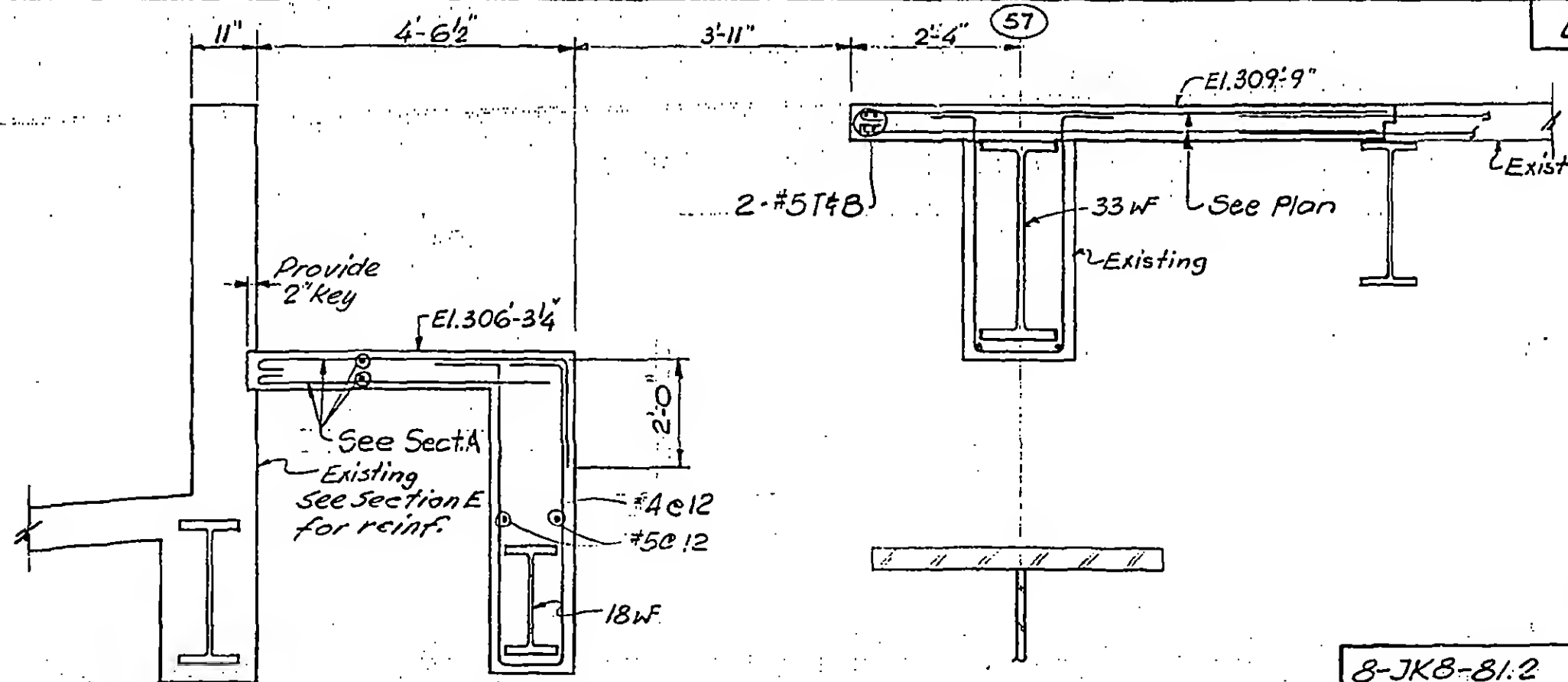
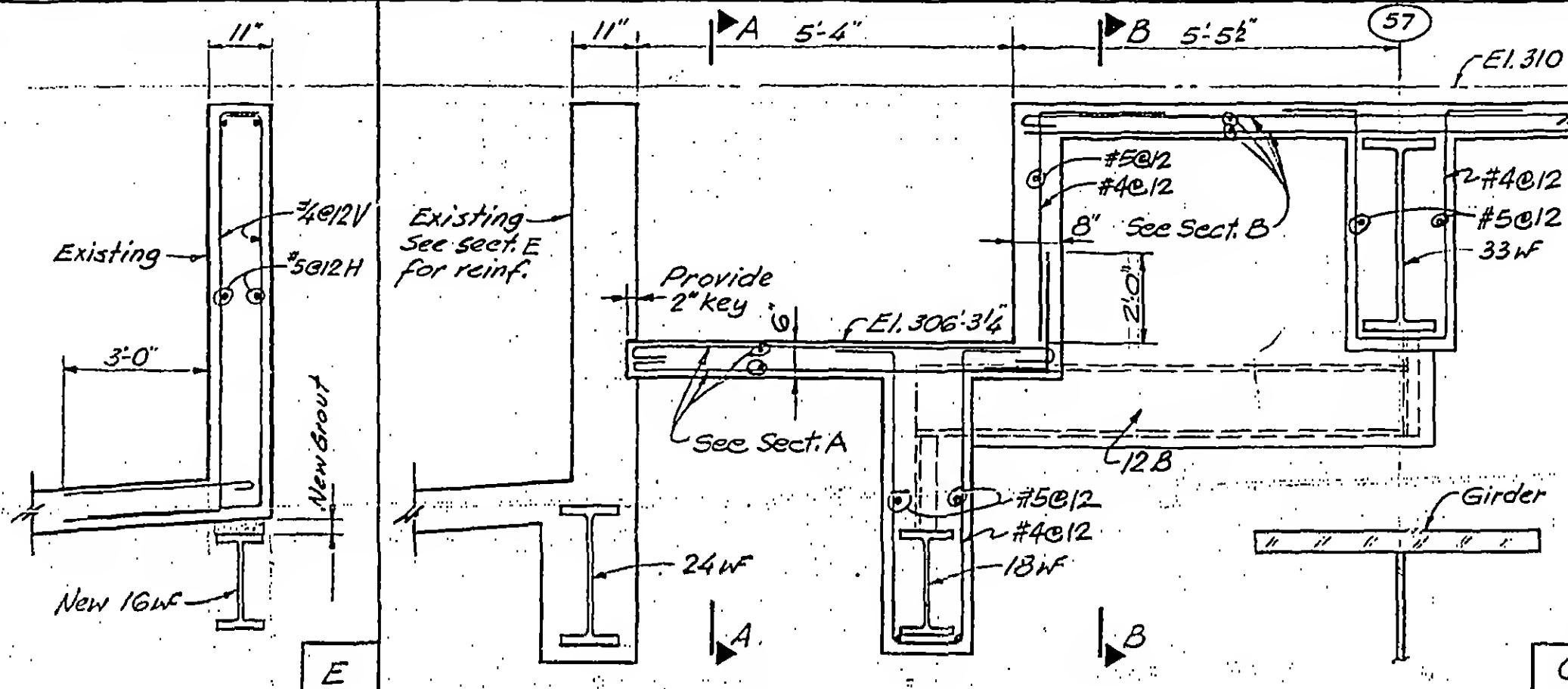
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTION AT STAIR K-8 EL-310

DATE 6-15-73

REVISIONS



DESIGNED

DRAWN

REVIEWED

J.G. 10.08

8-JKB-81.2

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

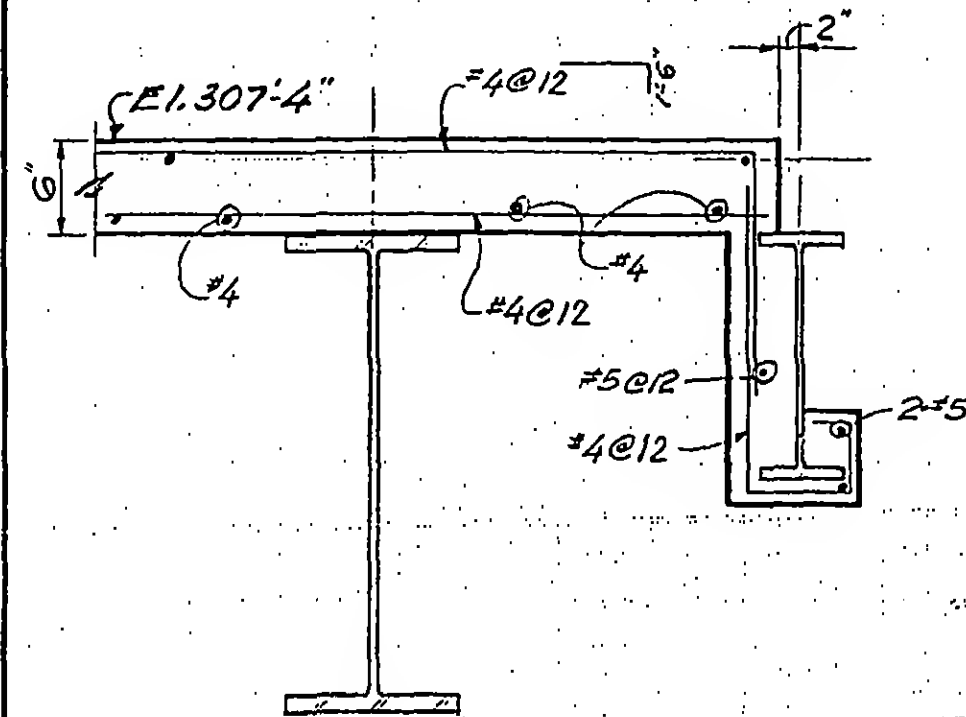
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

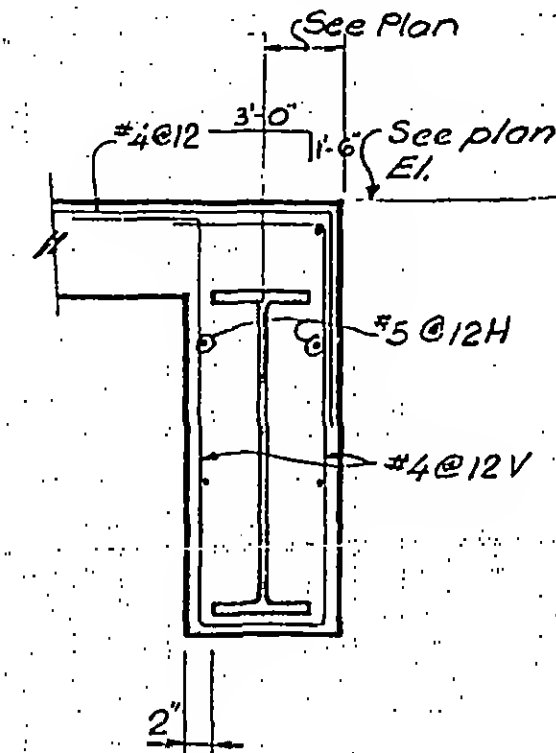
TITLE SECTION AT ESCALATOR EI. 310

DATE 6-15-73

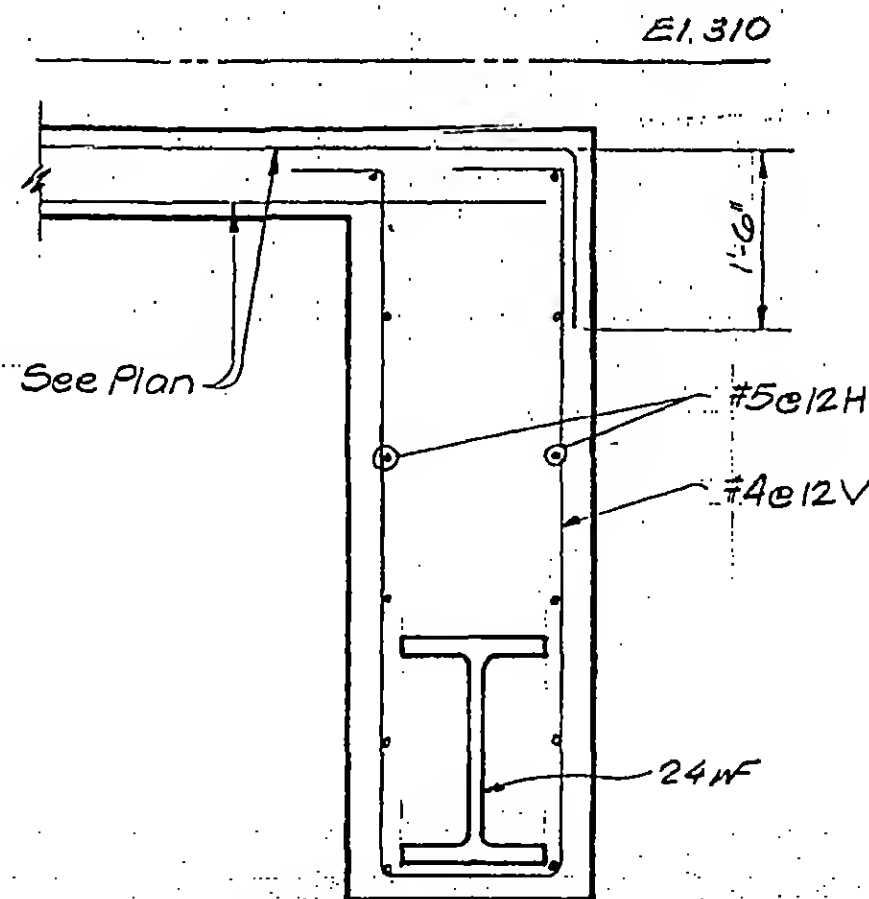
REVISIONS



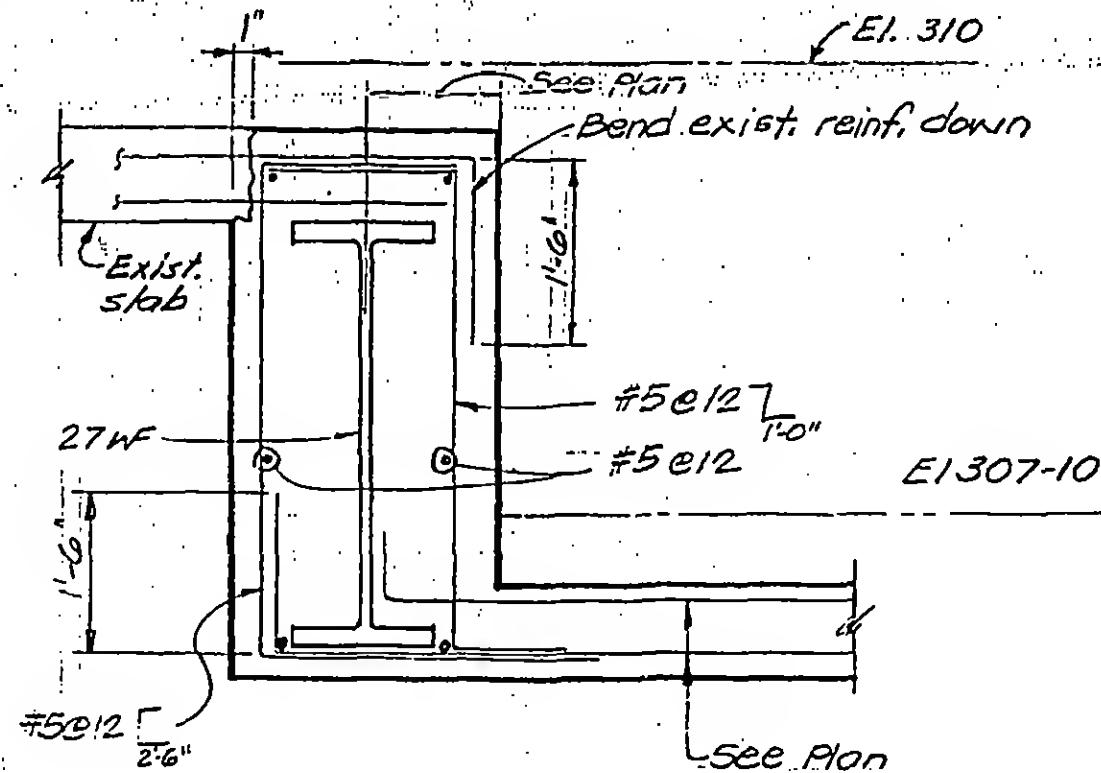
A



B



C



D

8-JK8-82.1



DESIGNED

K C

DRAWN

J. Gracius

REVIEWED

WAB

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

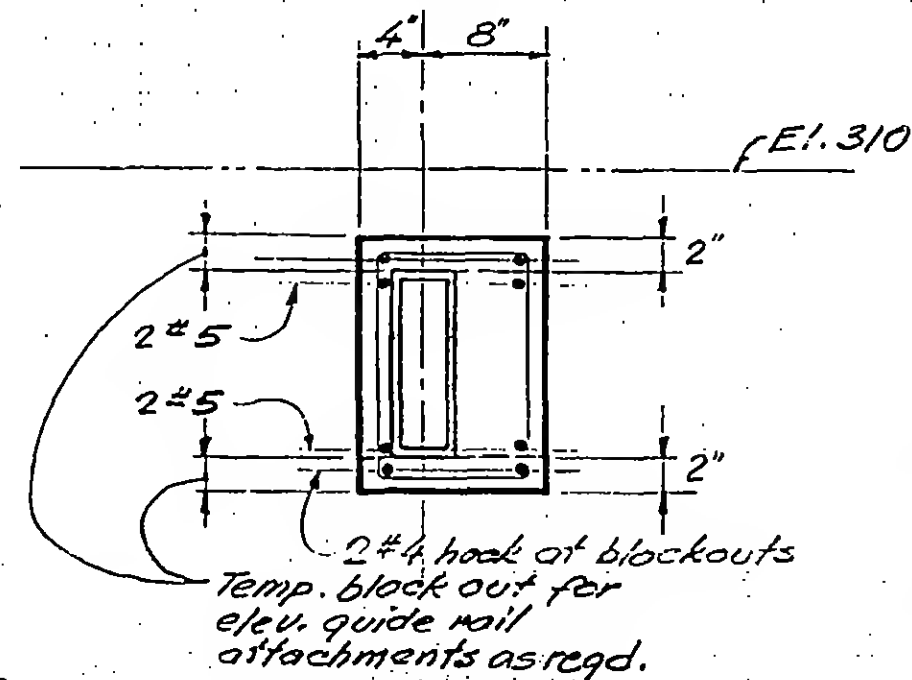
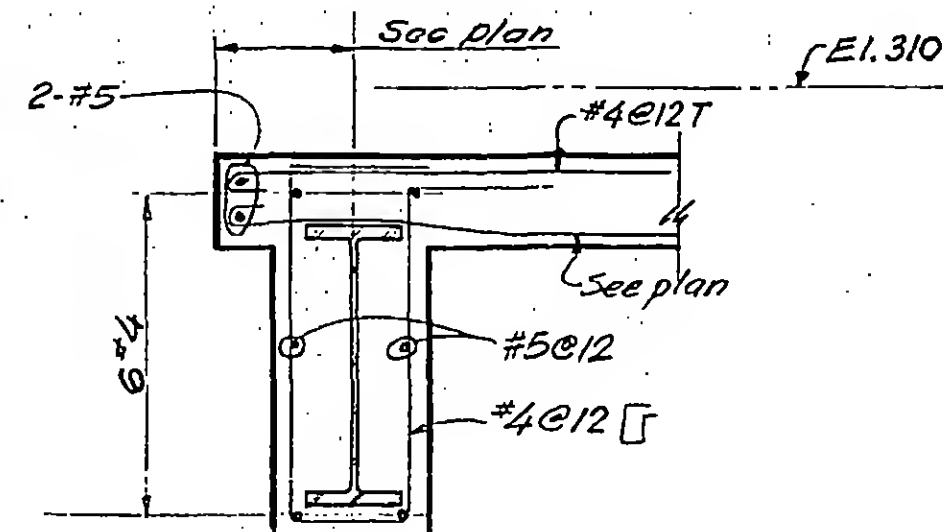
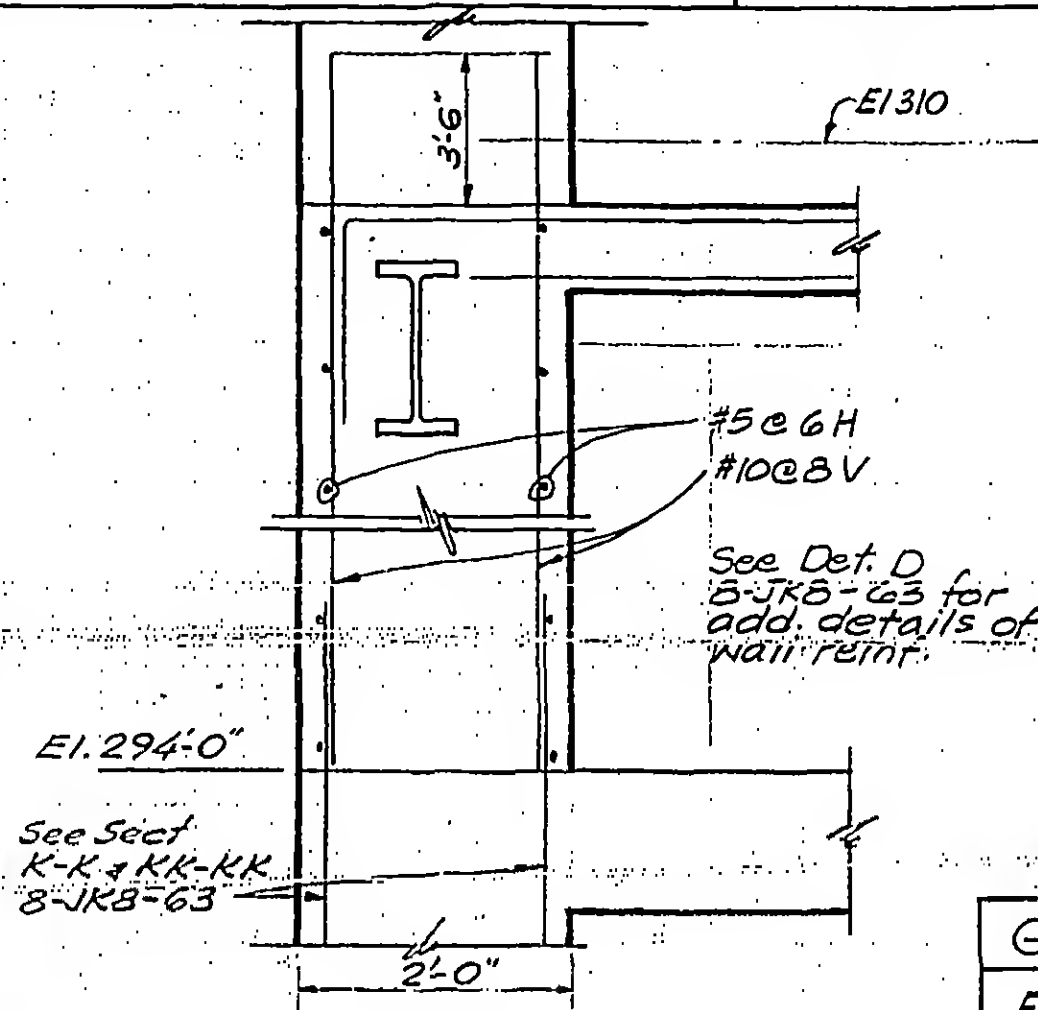
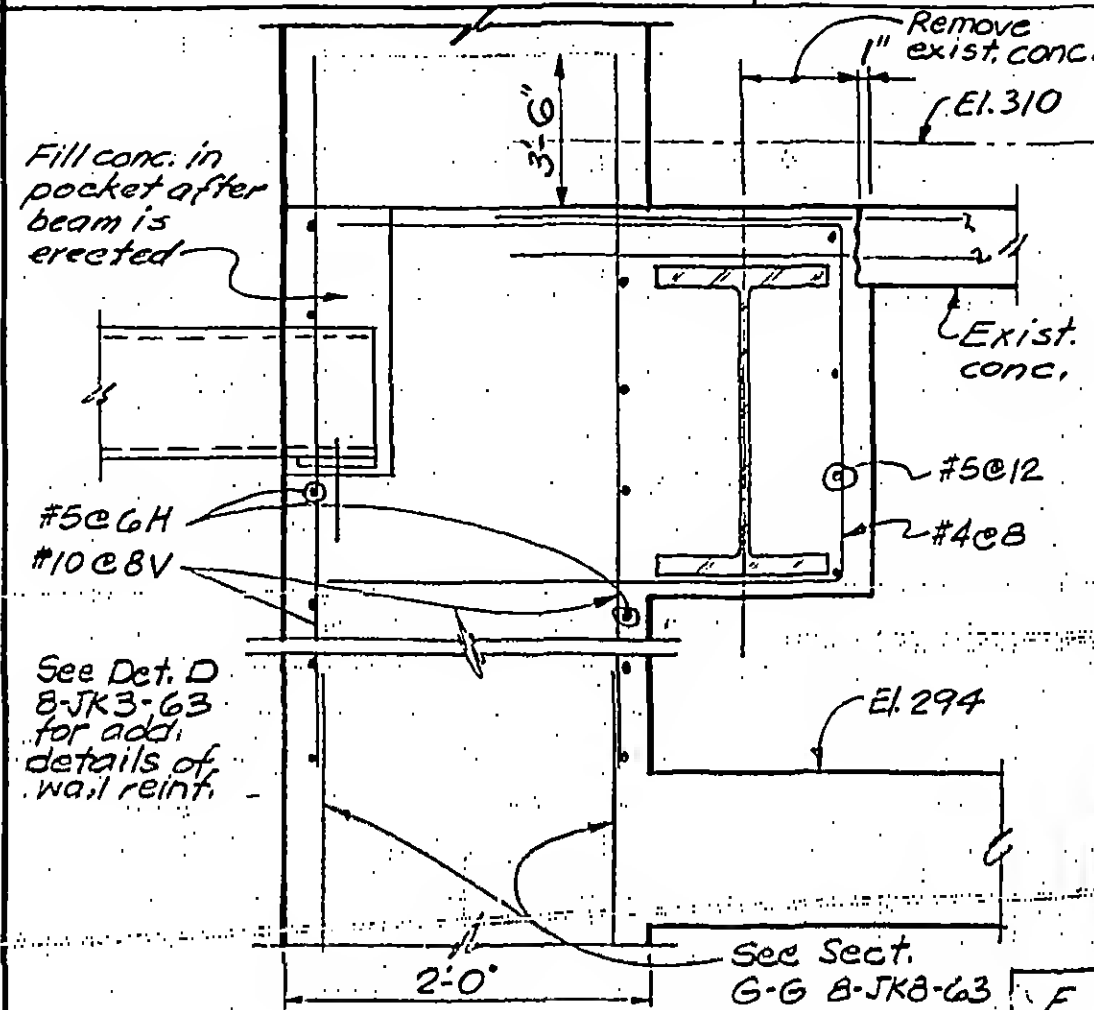
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTION AT SERVICE ELEVATORS

DATE 6-15-73

REVISIONS



DESIGNED

K.C.

DRAWN

J. Gracius

REVIEWED

Wab

8-JK8-82.2

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

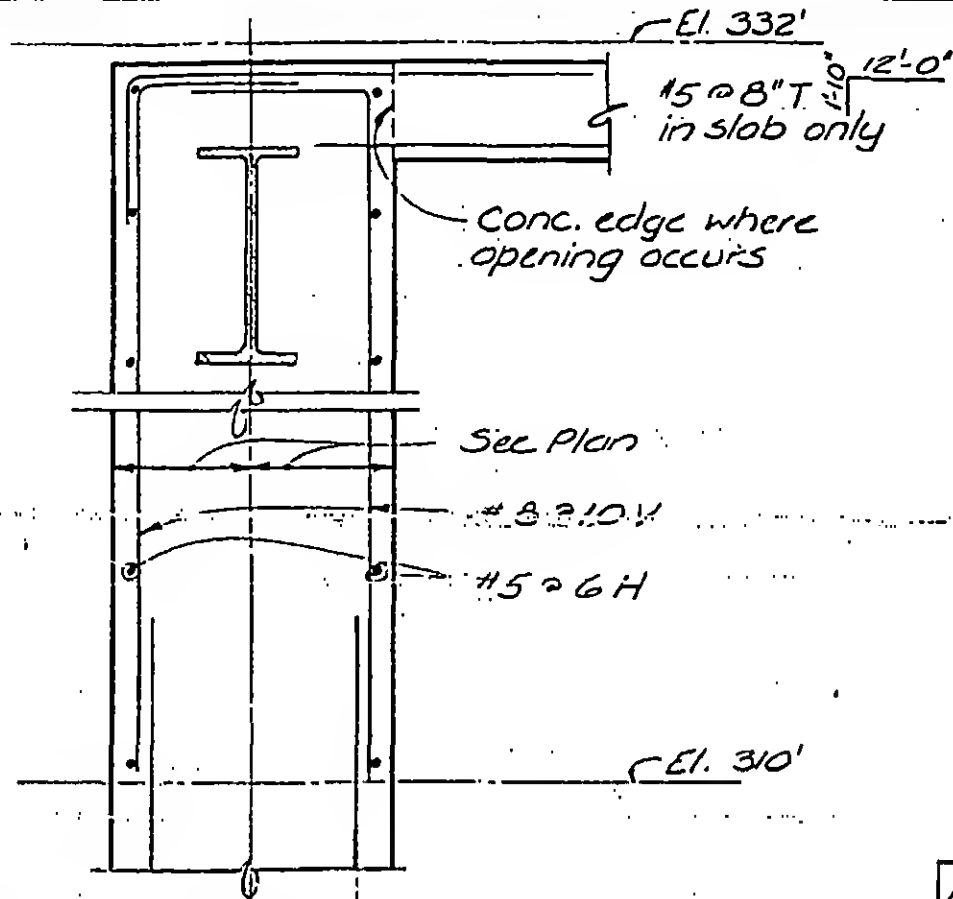
PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT SERVICE ELEVATORS

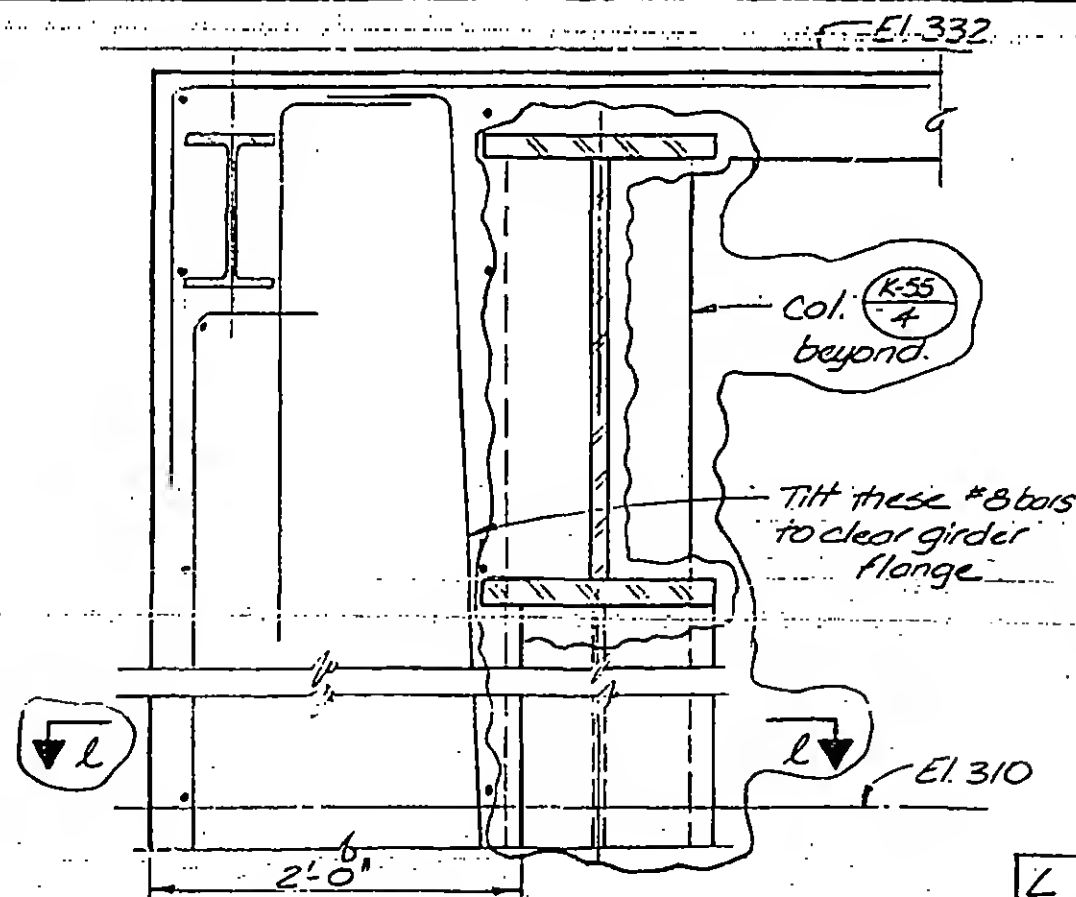
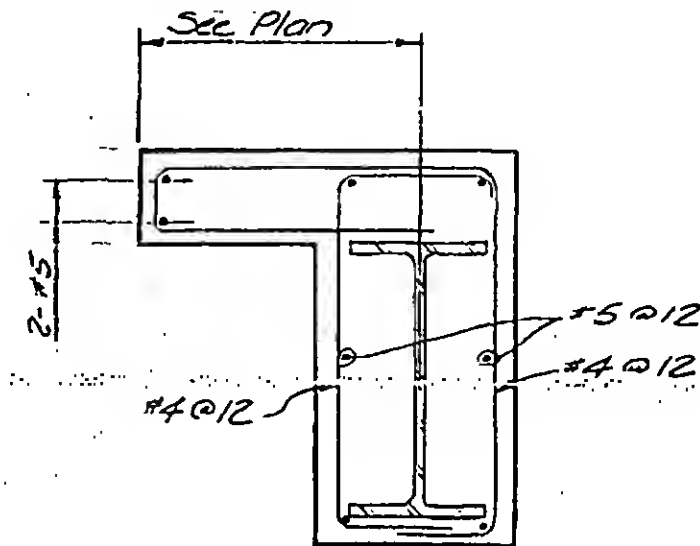
DATE 10-11-73

REVISIONS

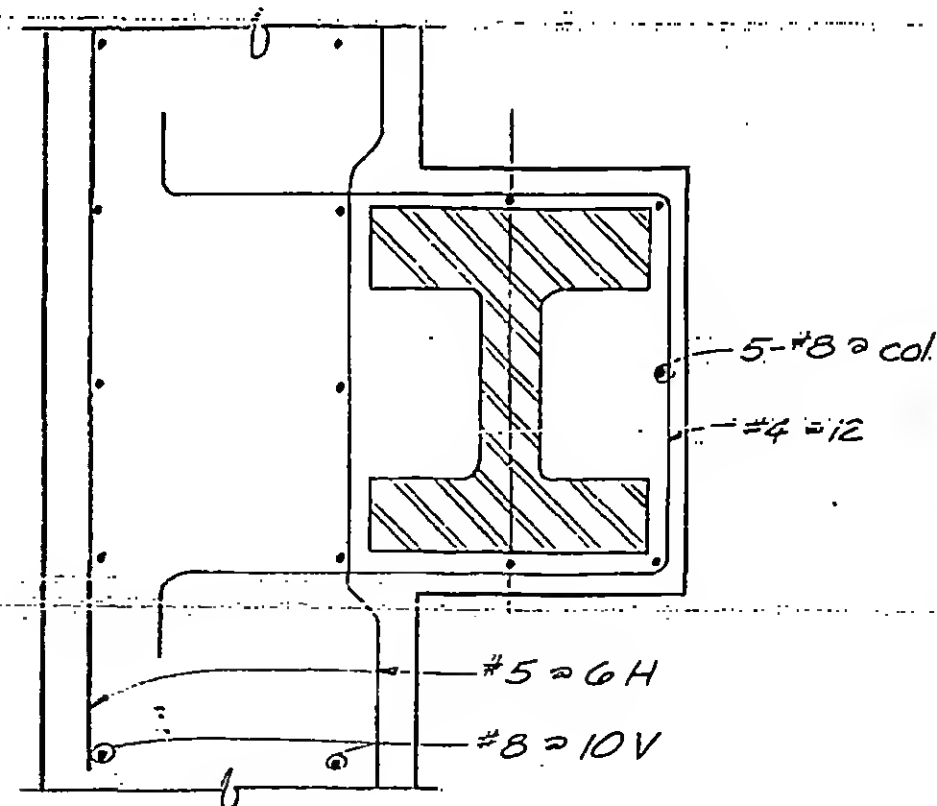
A-5-74



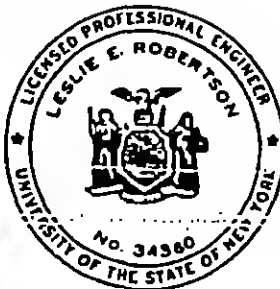
N P



L L



B-JKB-82.4



DESIGNED

K.C.

DRAWN

J.B.

REVIEWED

J.T.M.

SKILLING, HELLE. CHRISTIANSEN, ROBERTSON

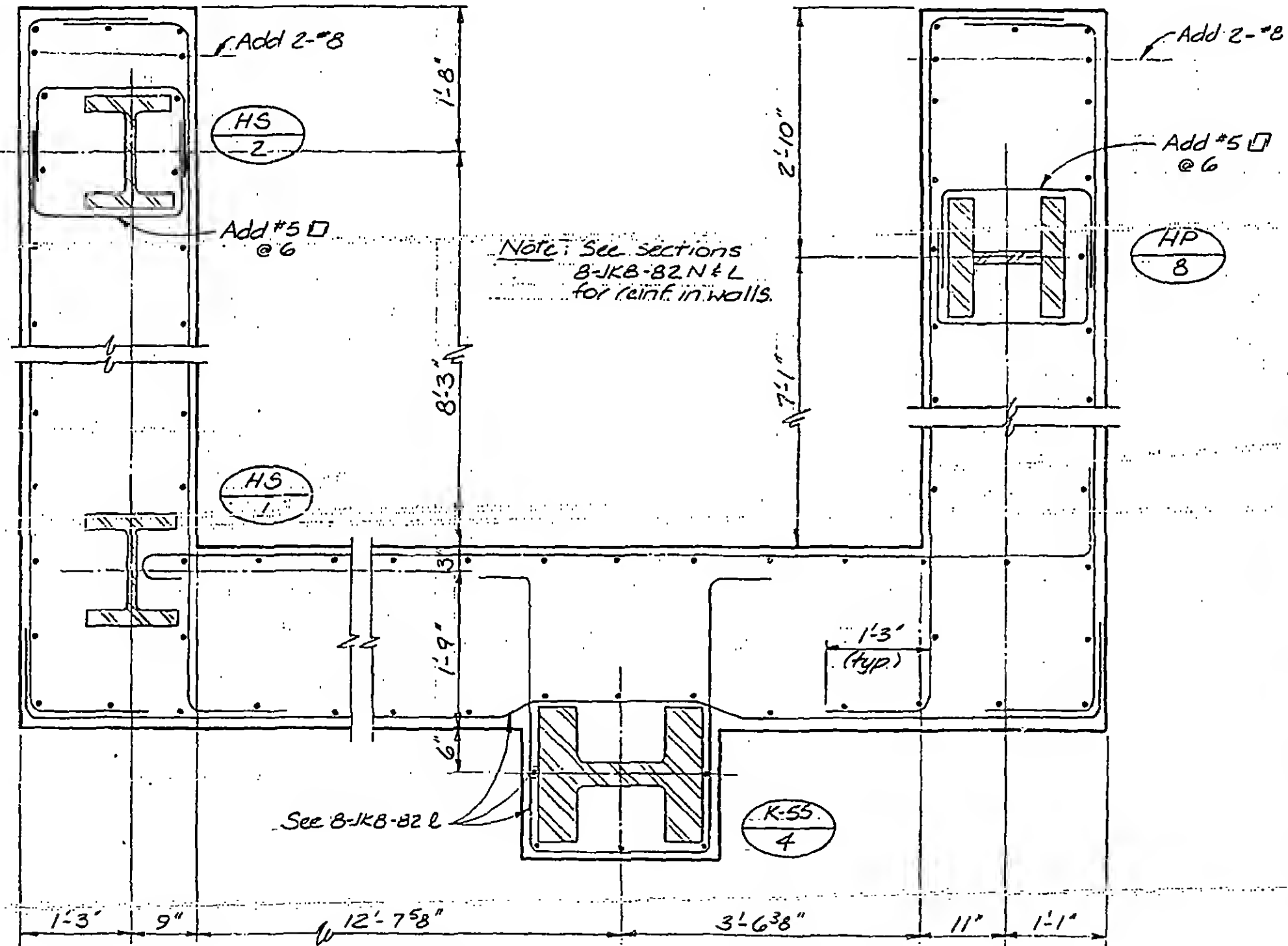
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT SERVICE ELEVATORS

DATE 4-5-74

REVISIONS



Placement of Wall Reinf. at El. 310



DESIGNED J.T.M.

DRAWN J.B.

REVIEWED W.B.

Q

8-JKB-82.5

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

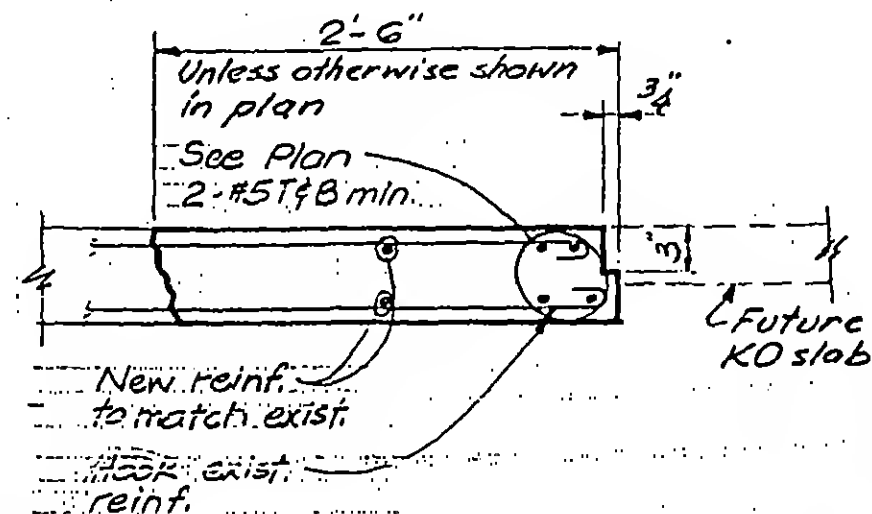
TITLE SECTION AT NEW OPENING EI. 310

DATE 6-15-73

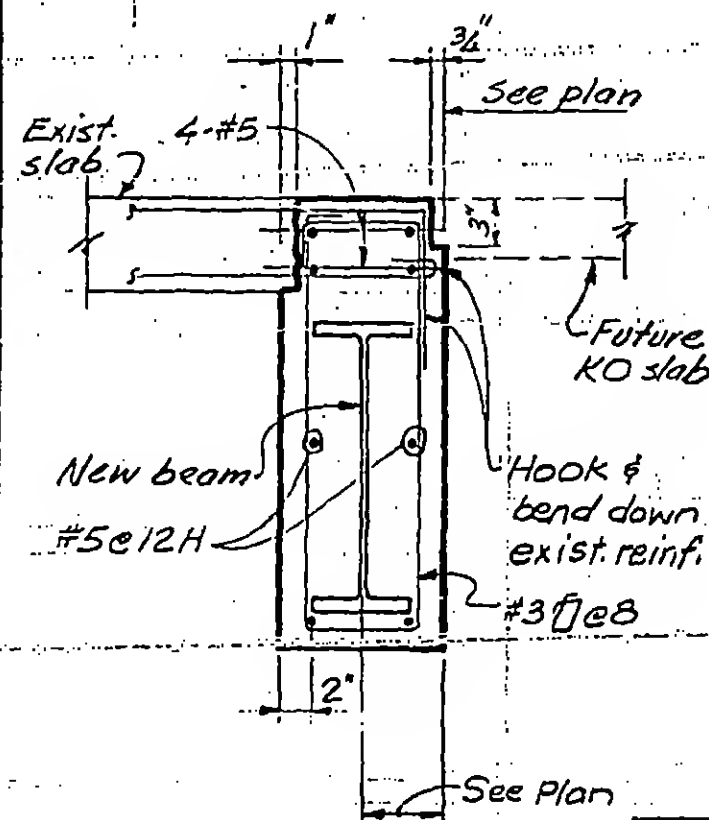
REVISIONS

Notes:

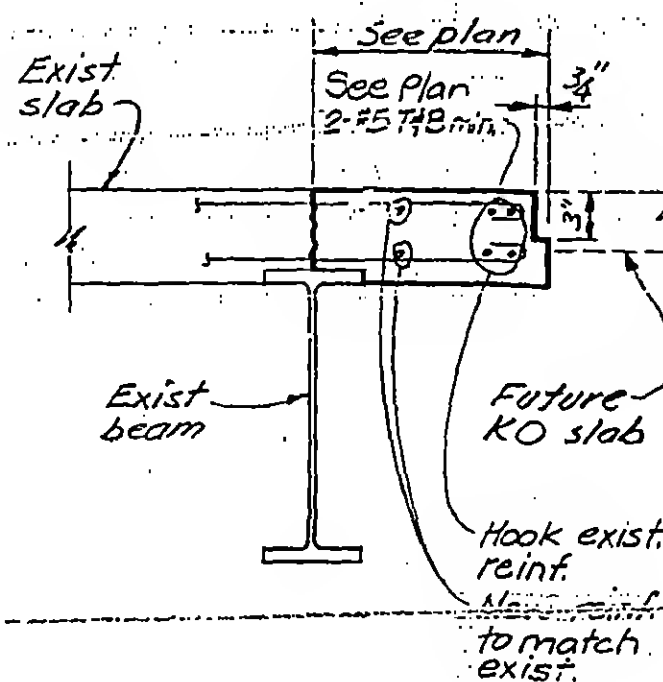
1. Slabs and other construction shall be shored as required before removing existing concrete.
2. Remove existing concrete without damage to existing reinforcing.
3. Clean face of existing concrete and thoroughly coat entire surface with "Approved" epoxy bonding compound.
4. Cast new concrete using approved "non-shrink" $f_c = 4000$ psi concrete, stone or lightweight aggregate to match existing.



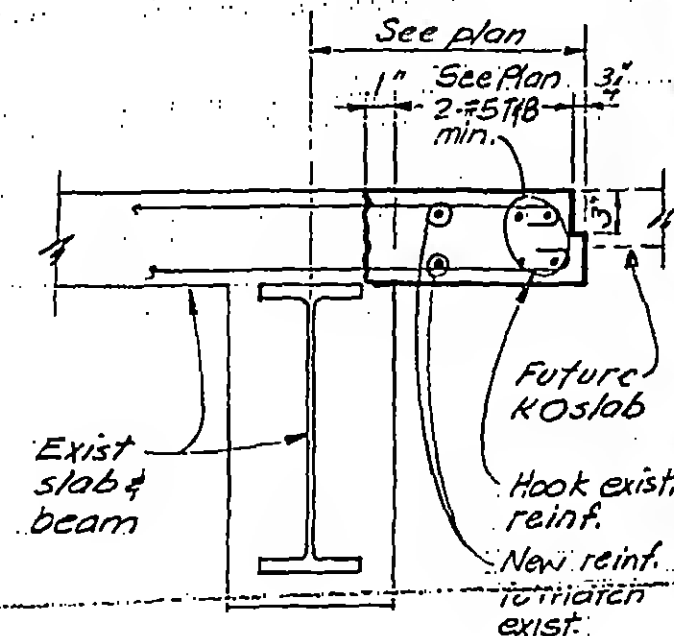
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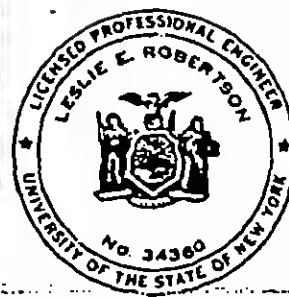


C



D

8-JKB-83.1



DESIGNED

DRAWN

J. G.

REVIEWED

W&B

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

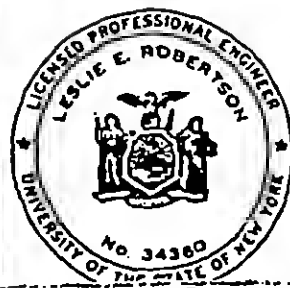
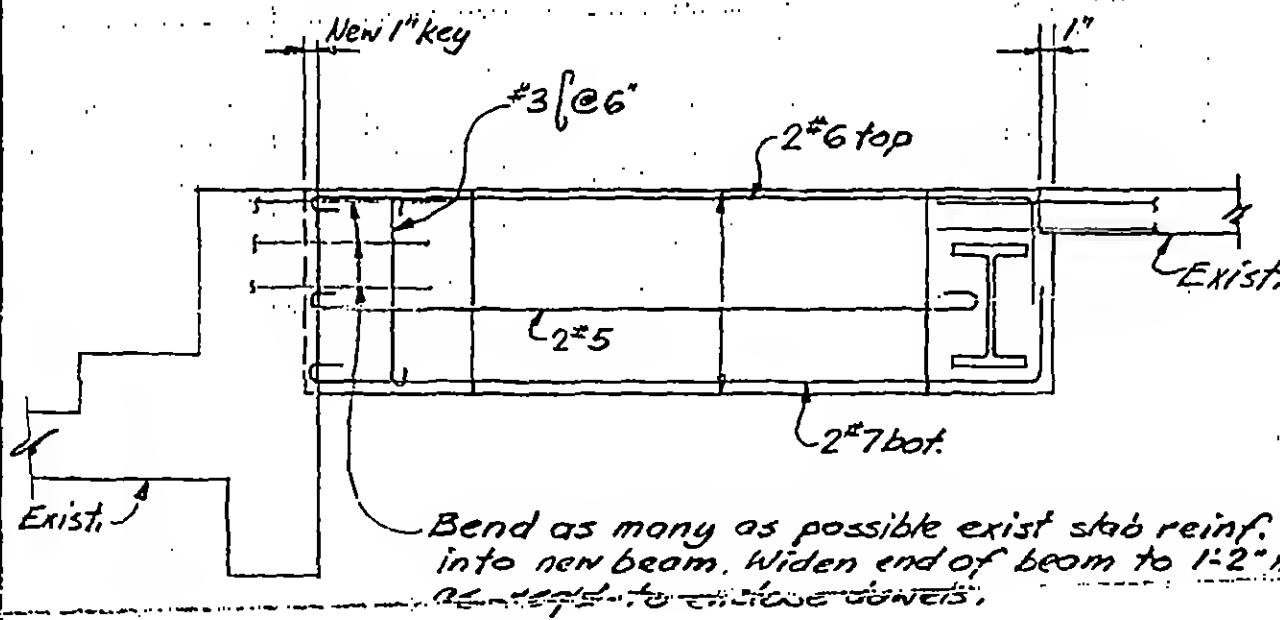
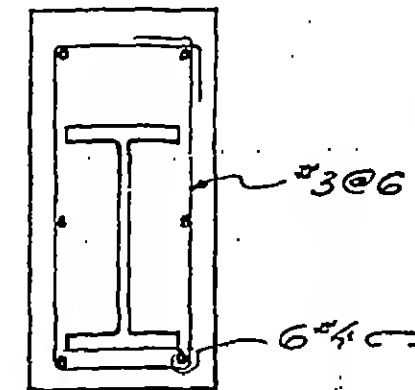
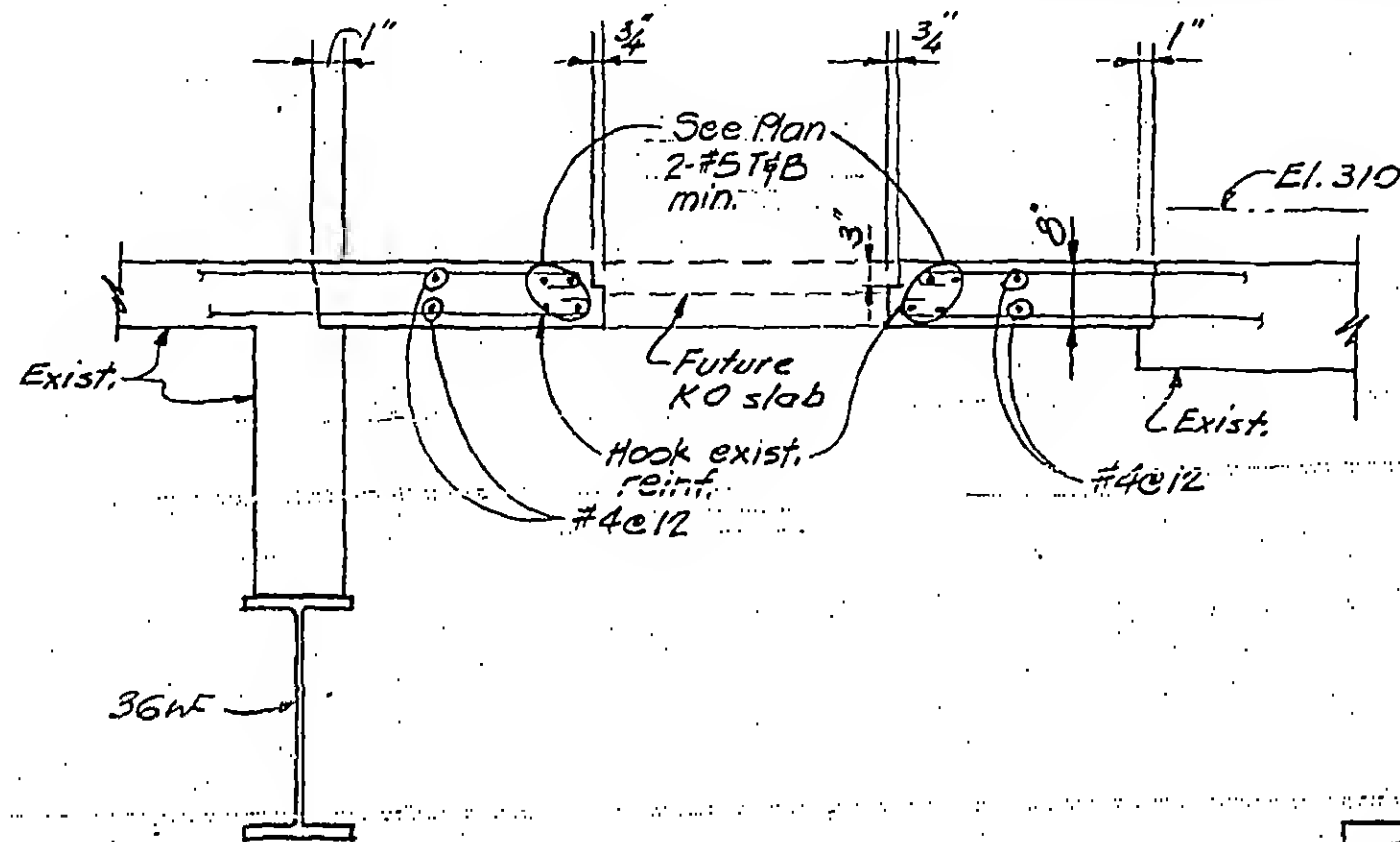
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT NEW OPNGS EI.310

DATE 6-15-73

REVISIONS



DESIGNED

DRAWN

J.G.

REVIEWED

WOB

G

8-JK8-83.2

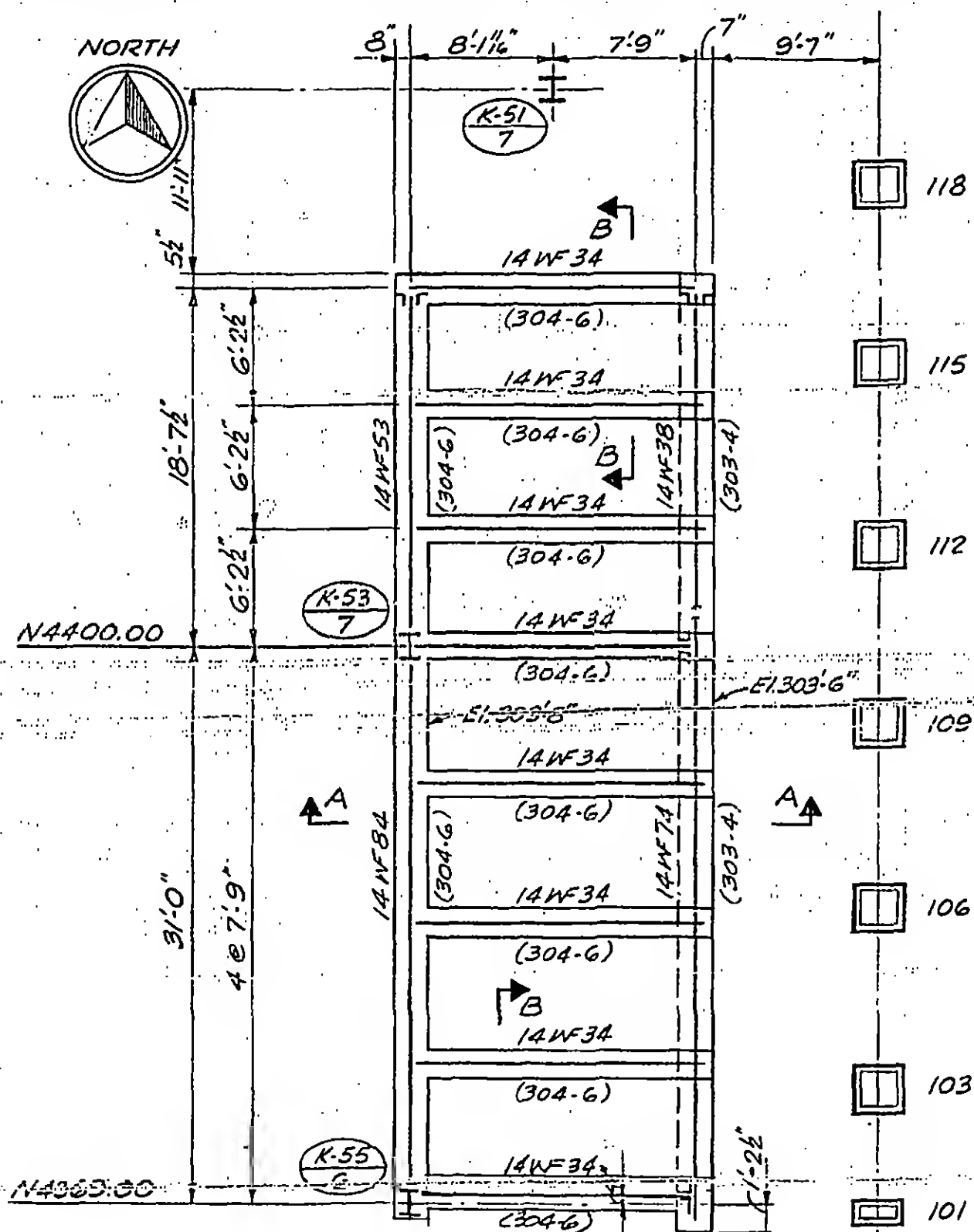
Structural & Civil Engineers

PROJECT *THE WORLD TRADE CENTER*

TITLE MECH. PLATFORM ZONE K5 EL.303-6 PLAN

DATE 6-15-73

REVISIONS



DESIGNER

DRAWN
SC

REVIEWED

Mechanical Platform
Reference floor at El 303'-6"

8-JK8-84.1

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

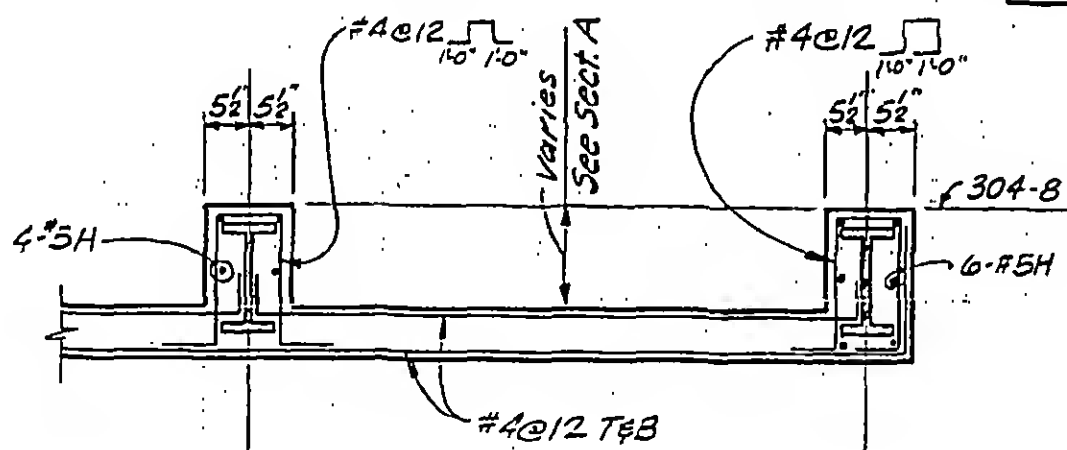
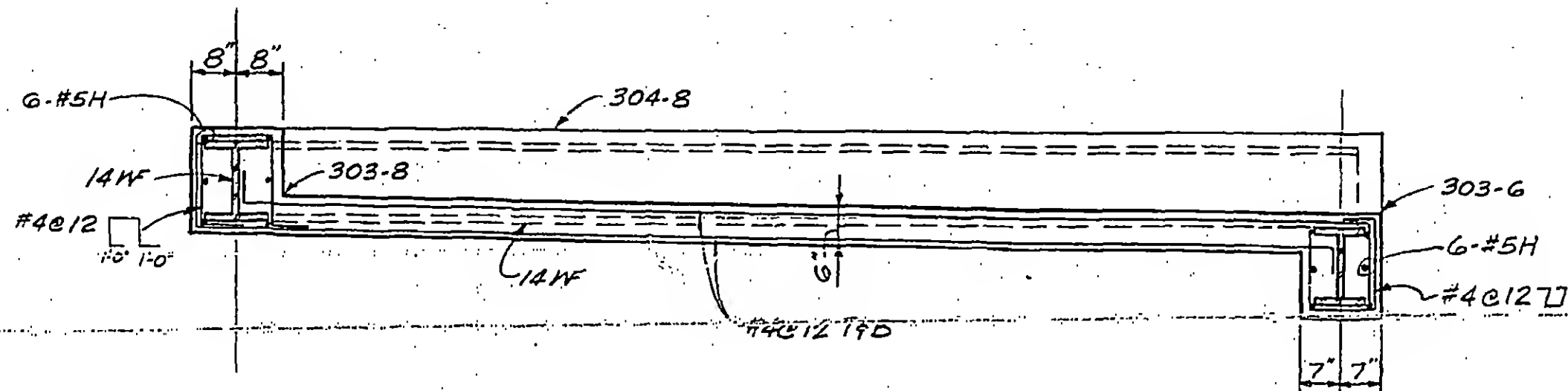
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE MECH. PLATFORM ZONE K5 EL. 303-6 SECTIONS

DATE 6-15-73

REVISIONS



DESIGNED

DRAWN
SC

REVIEWED

8-JKB-84.2

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

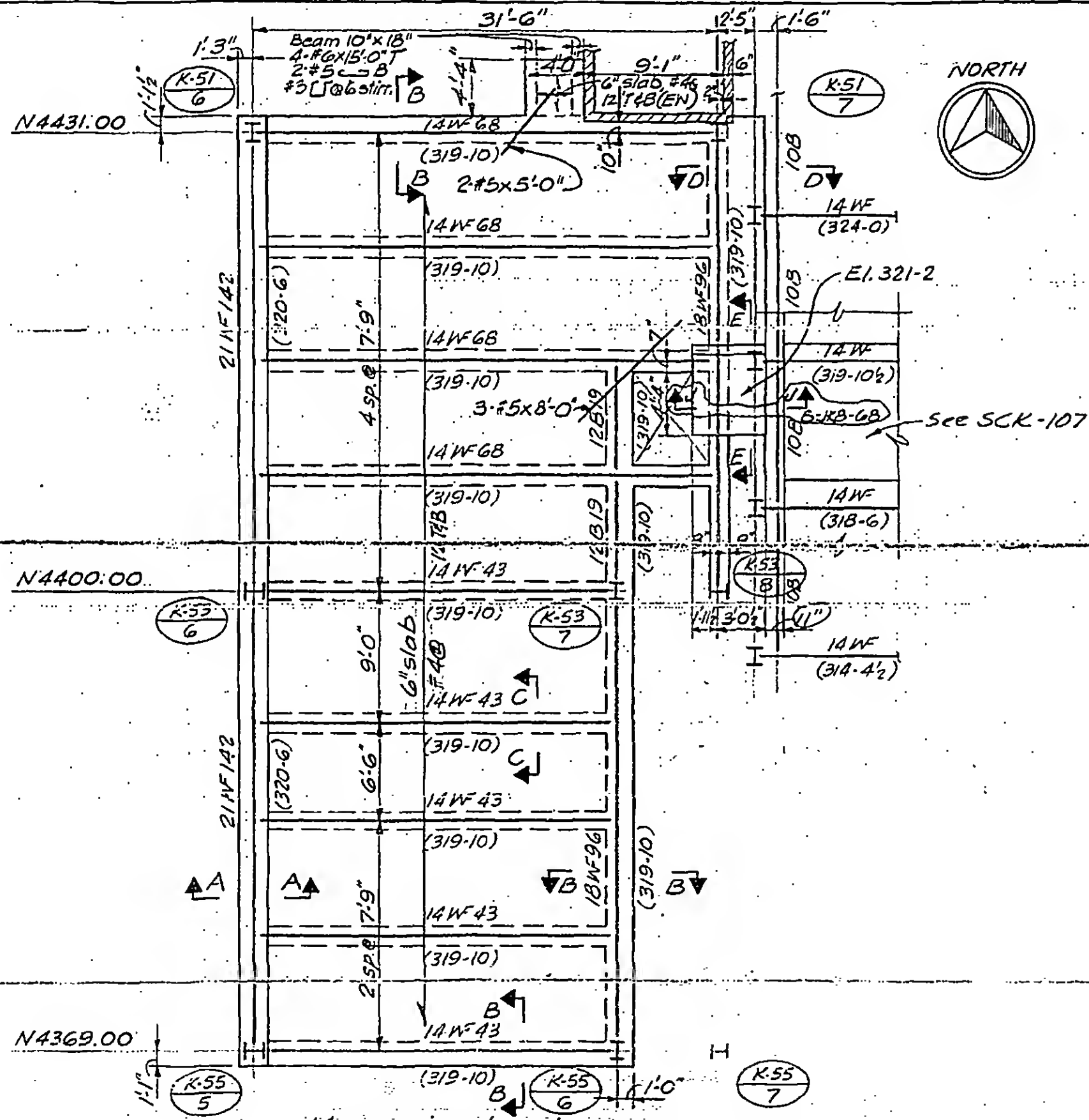
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE MECH. PLATFORM ZONE K5 EL. 320 PLAN

DATE 6-15-73

REVISIONS



DESIGNED

DRAWN
SC

REVIEWED

B-JKB-85.1

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

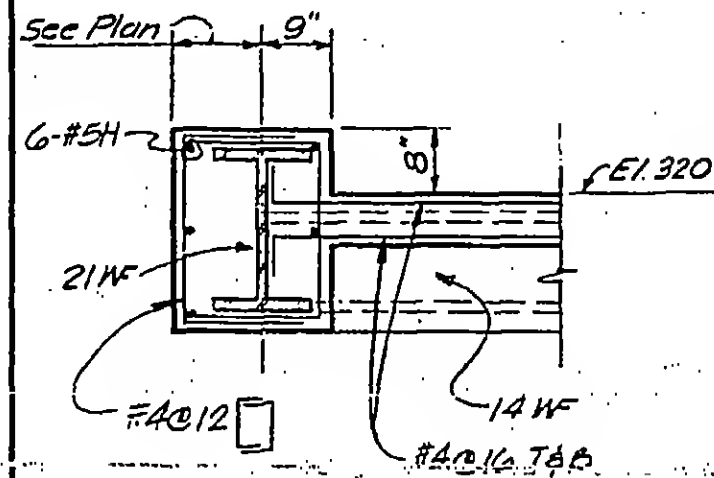
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

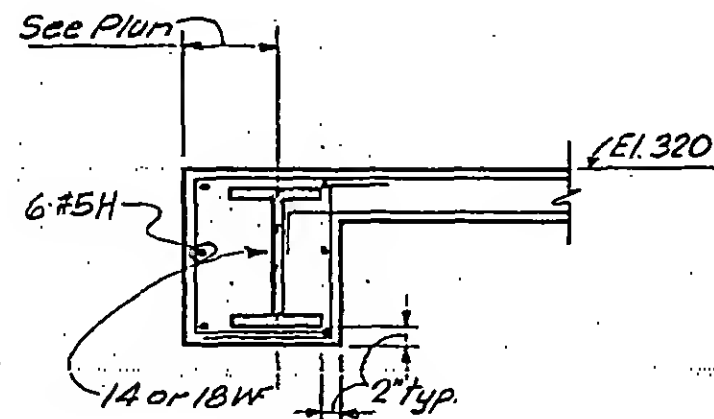
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DATE 6-15-73

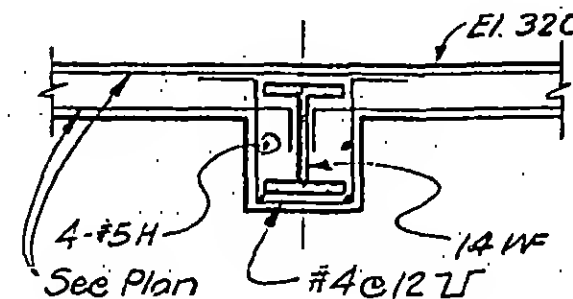
REVISIONS



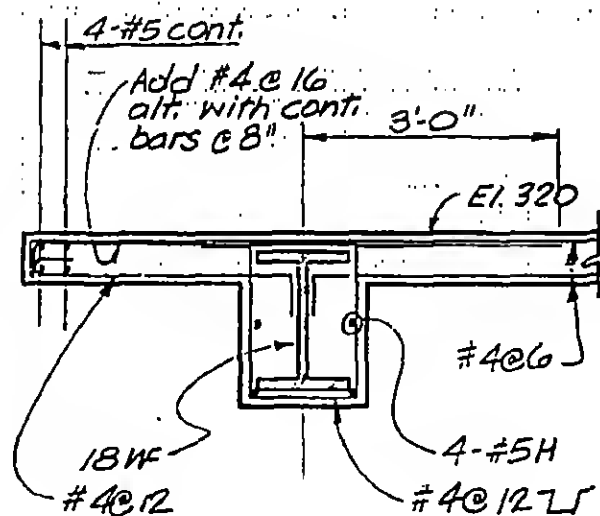
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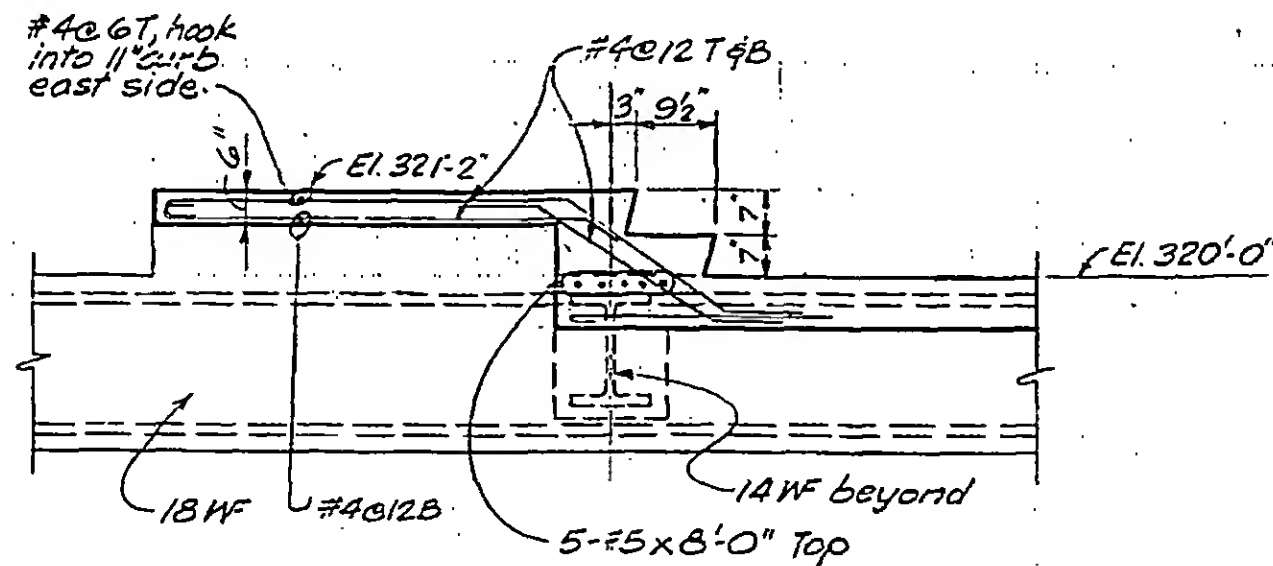
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DESIGNED

DRAWN
SC

REVIEWED

Wap

B-JKB-85.2

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

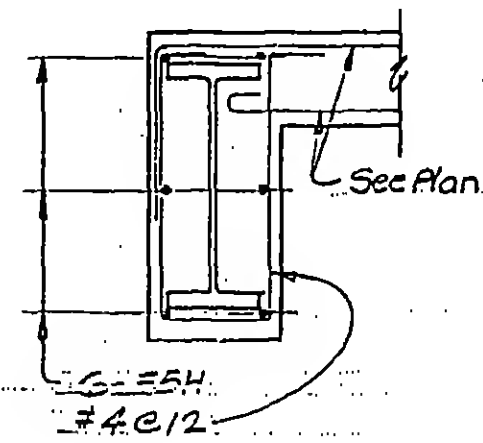
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

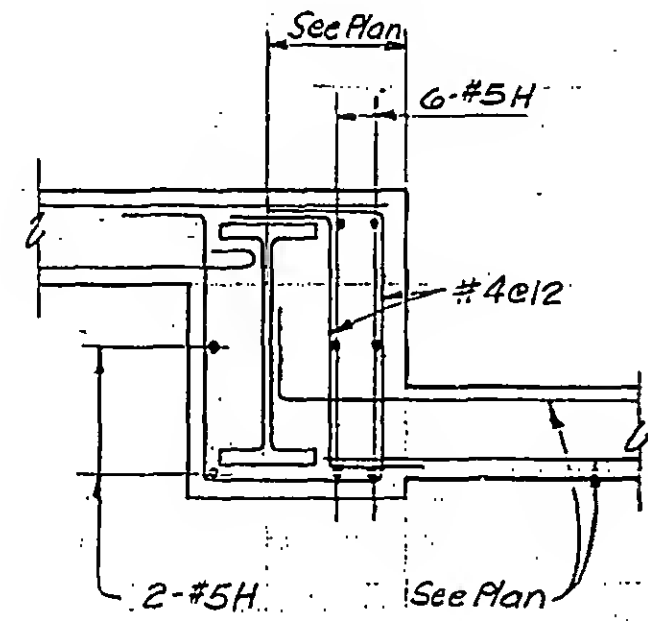
TITLE SECTION MECH. PLATFORM OVER RAMP M

DATE 6-15-73

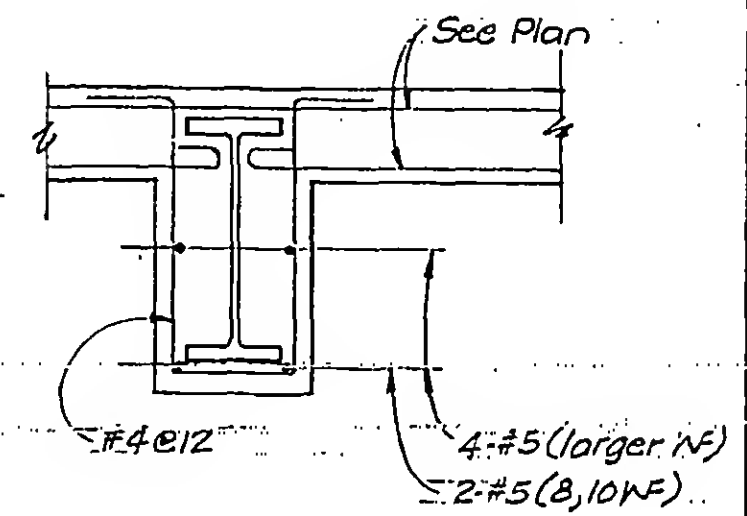
REVISIONS



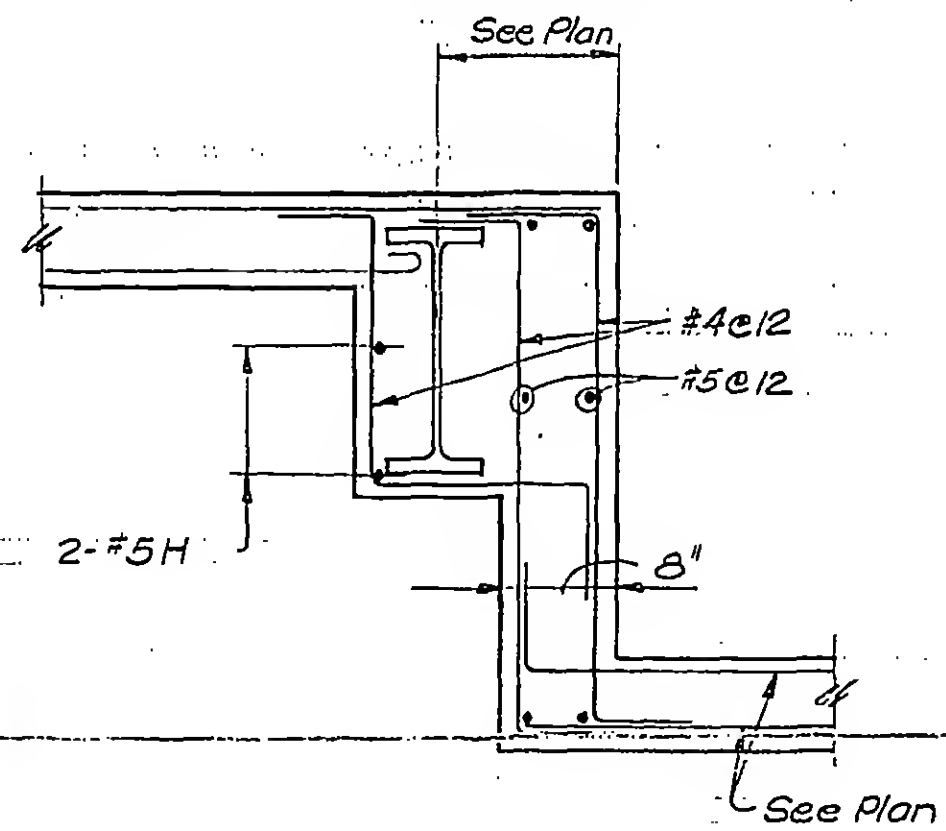
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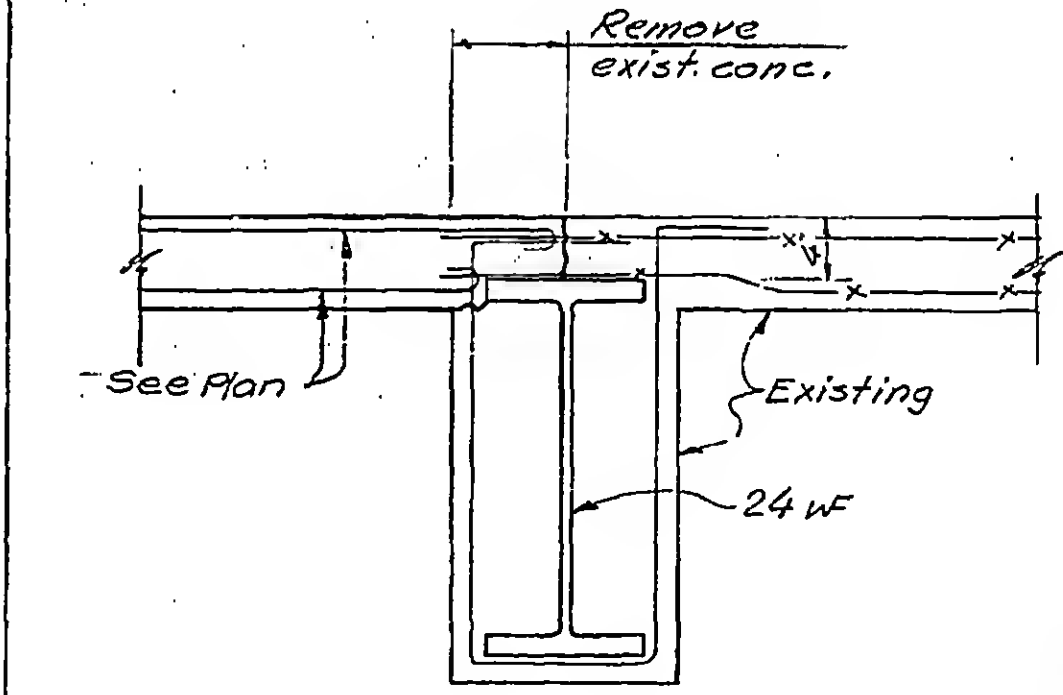
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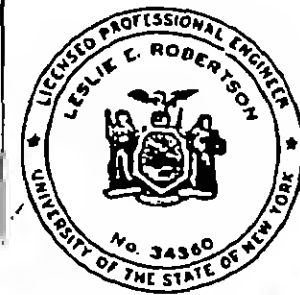
C



D



E



DESIGNED

DRAWN

J.G.

REVIEWED

WOB

8-JK8-86

SKILLING, HELLE. CHRISTIANSEN, ROBERTSON

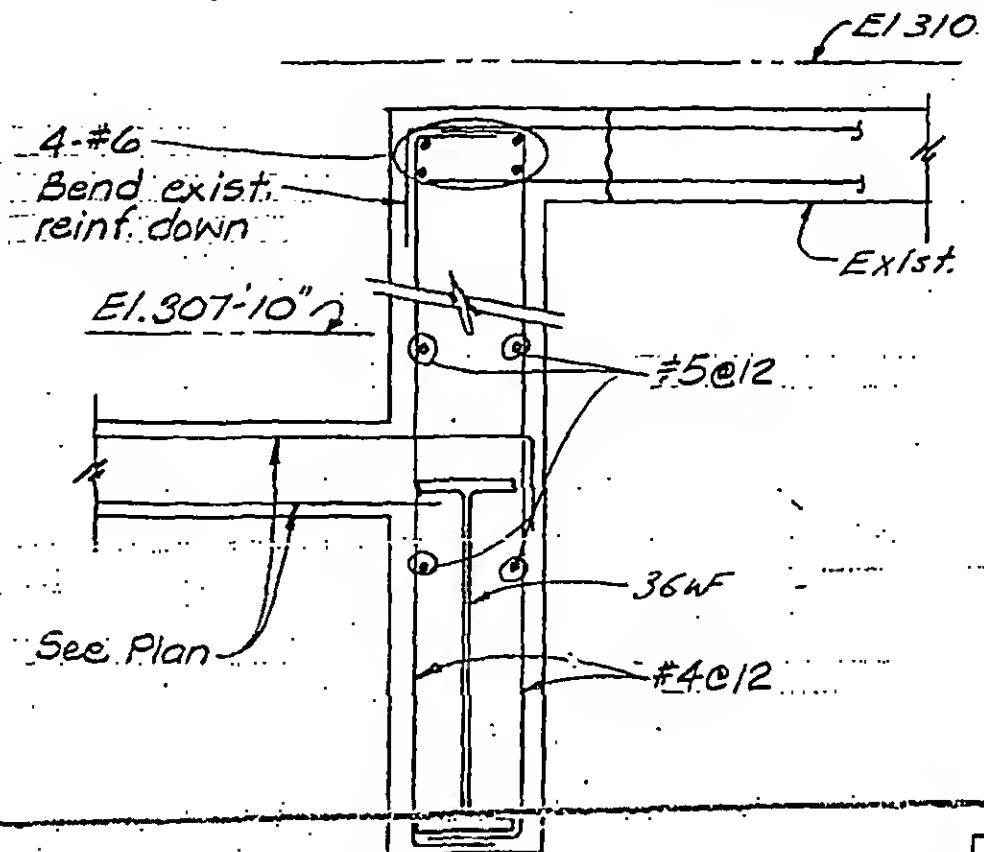
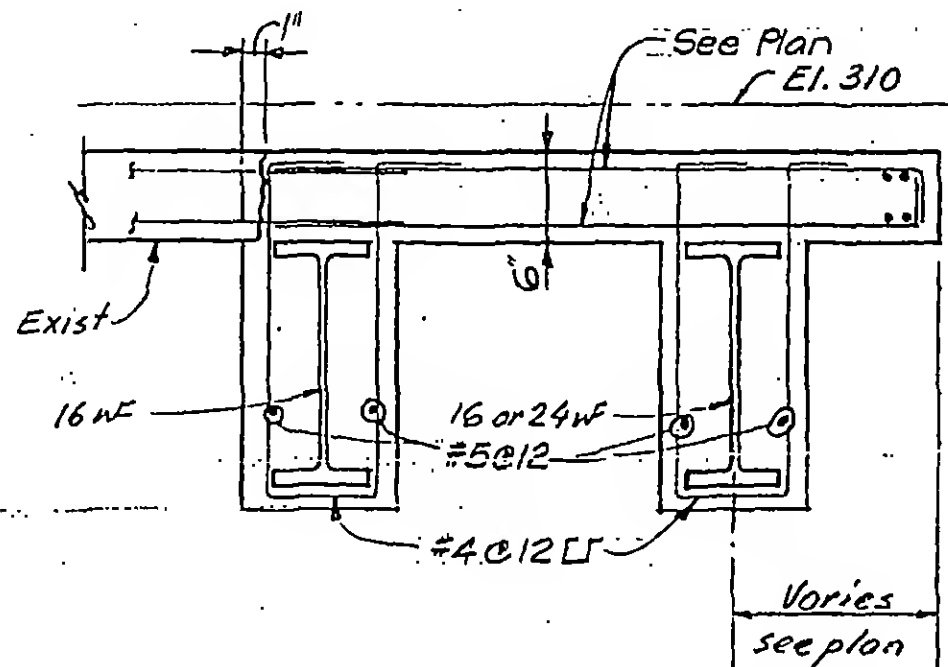
Structural & Civil Engineers

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TITLE SECTION EI. 310

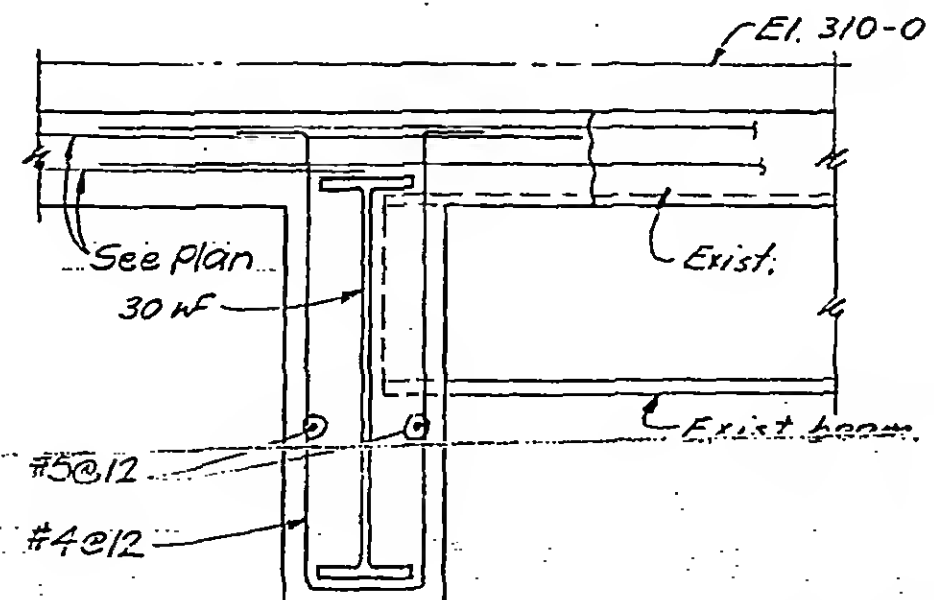
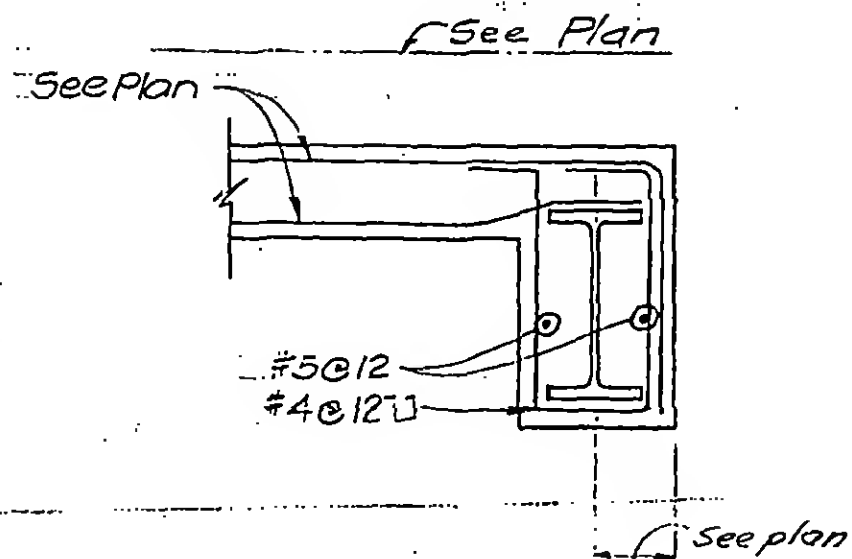
DATE 6-15-73

REVISIONS



A

B



C

D

8-11-8-87



DESIGNED

DRAWN

REVIEWED

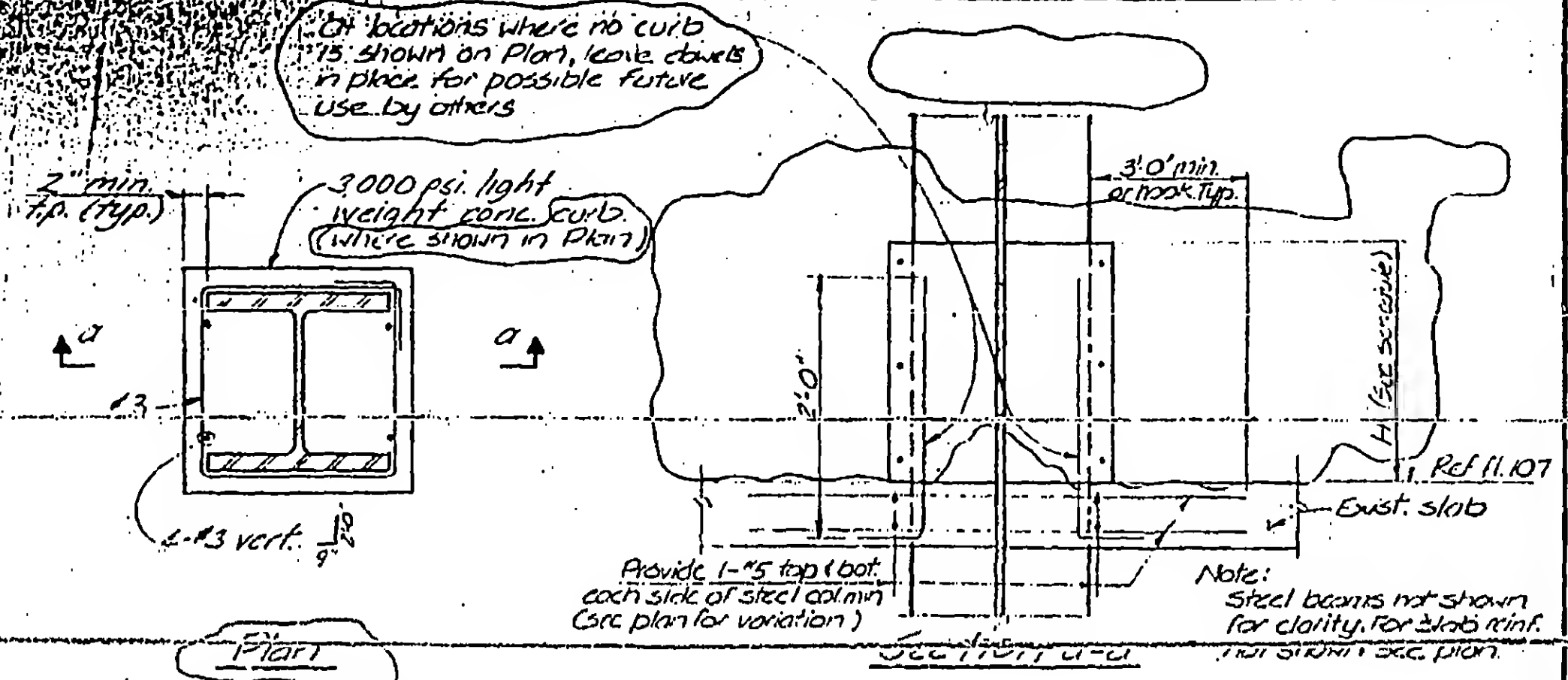
J.G.
WEB

BOOK 8

CHAPTERS

10 & 11

ONE
 6-16-72
 7-27-73
 (As built)
 9-12-73
 7-12-74



Detail No.	Dimensions "H"
B-AB10-1.1A	0' (No curb)
B-AB10-1.1B	1'-7 1/2"
B-AB10-1.1C	1'-10"
B-AB10-1.1D	1'-8"



DESIGNED
 R. Chittani
 DRAWN
 J. Adams
 CHECKED
 WCB

S-AB10-1.1

SKILLING, HELLE. CHRISTIANSEN, ROBERTSON

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PROJECT THE WORLD TRADE CENTER

TITLE DETAIL AT COLUMN AND DIAGONAL FL JOINT

DATE 11.23.70

REVISIONS

6-16-72

7-27-73

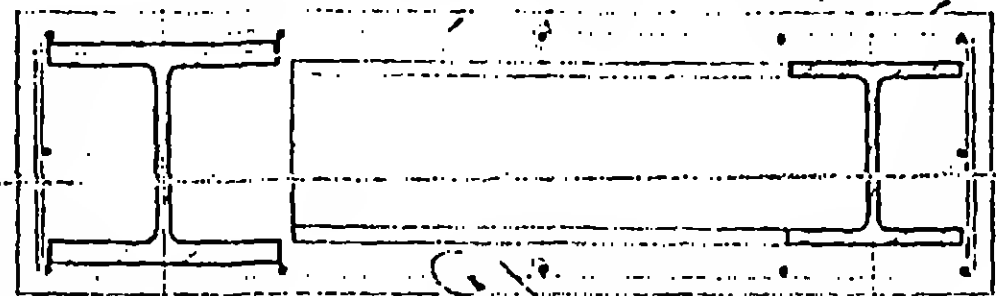
(As built)

9-12-73

7-2-74

Detail No.	Dimensions H"
B-AB10-12A	0 (Aband)
B-AB10-12B	1'-7 1/2"
B-AB10-12C	1'-10"
B-AB10-12D	3'-7 1/2"
B-AB10-12E	1'-8"

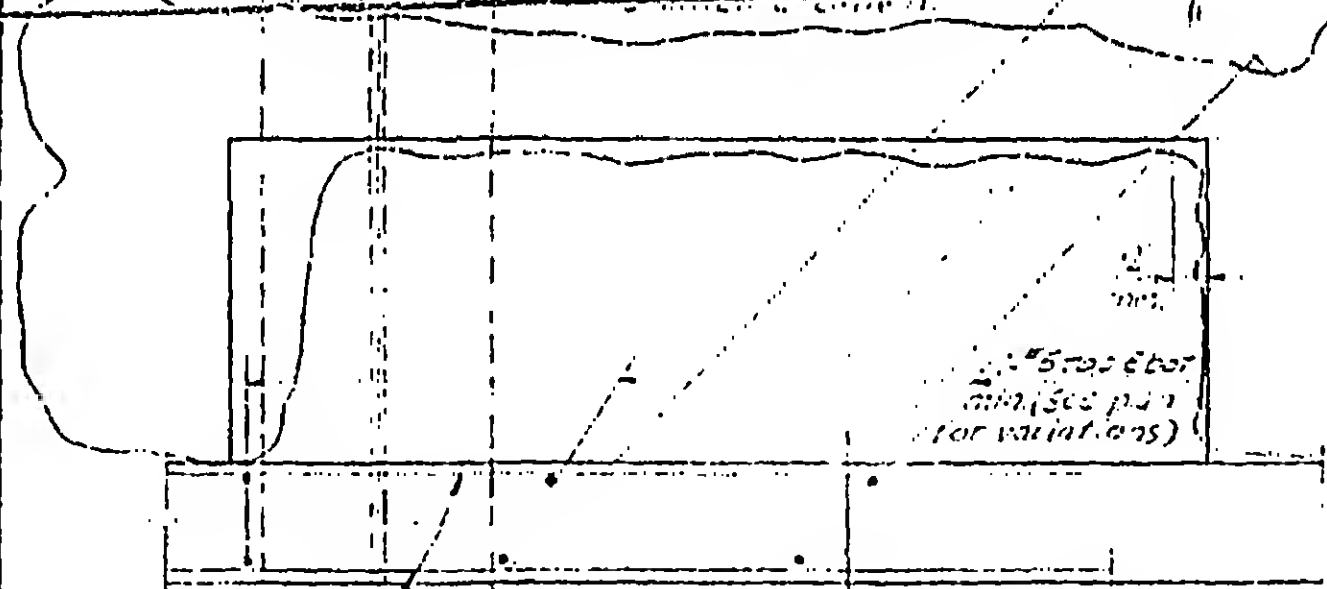
3000 PSI CONC
Concrete Joints
Shown on Plan



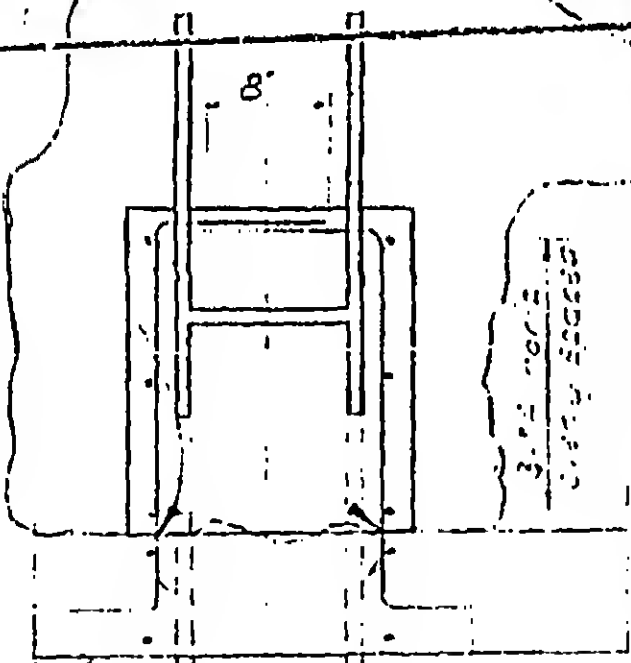
PLAN

Note: Steel members

At locations where no curb
is shown on plan, the
curb shall be 8" high
and 3" wide.



ELEVATION R-R



SECTION B-B



JTM

T. J. Morgan

11/27/74

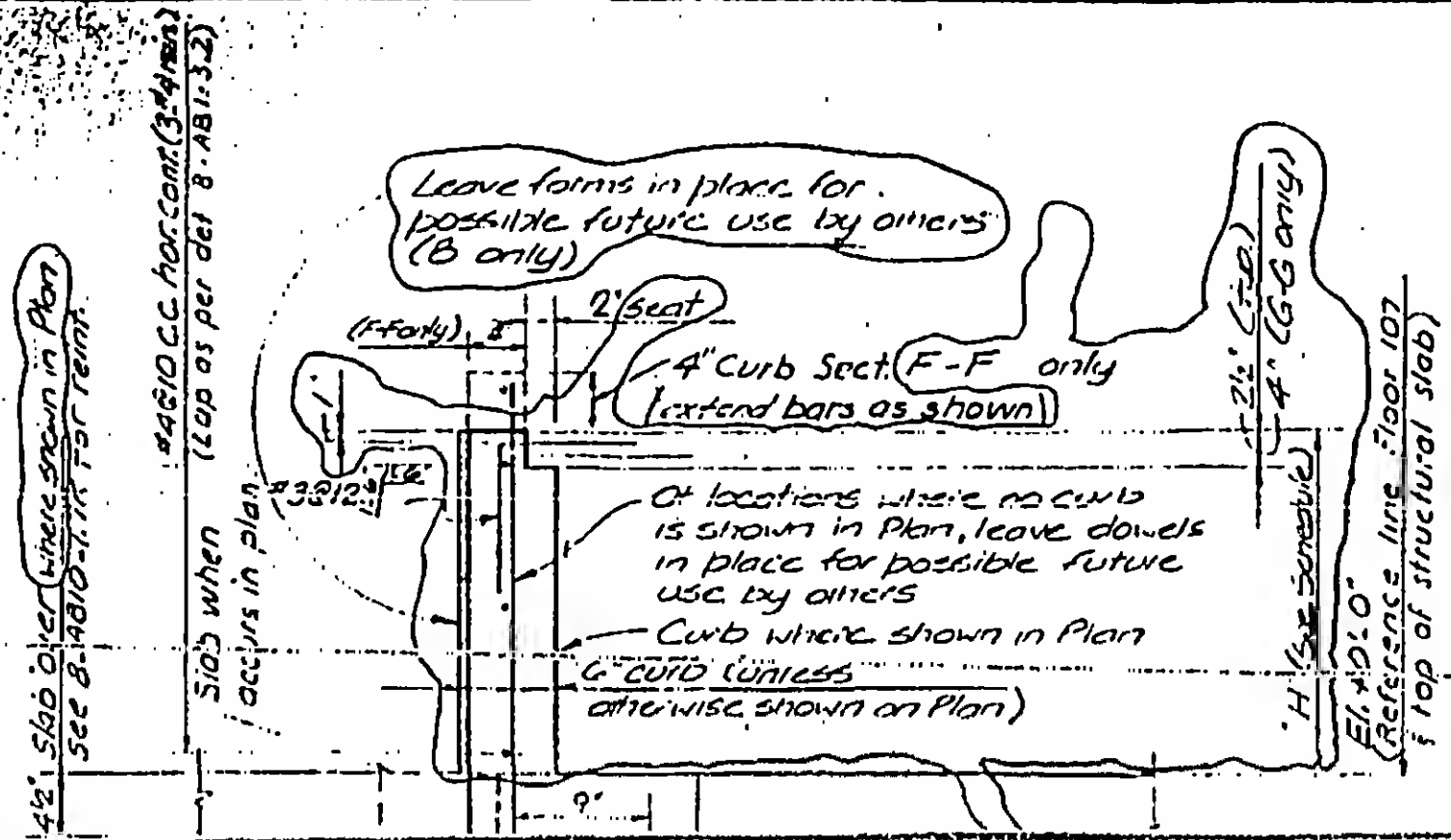
1.75" face bar
each side min.
(See plan for variations)

For Reinforcing re-
shown see plan
3/4" min.
or less typ.

3" x 8" x 8"
curb

REVISIONS

6-16-72
7-27-73 (As built)
9-12-73
7-12-74



Cut 2x4 seat at (slab over only)
See *note on 8-AB10-1.7K
for procedure.

Varies
See Plans

#3 @ 12 oc.
all around

For steel beams when
they occur See Plan

Concrete encasement only
where shown on plans

- Section A-A
- Section B-B
- Section C-C
- Section D-D
- Section E-E
- Section F-F
- Section G-G
- Section H-H

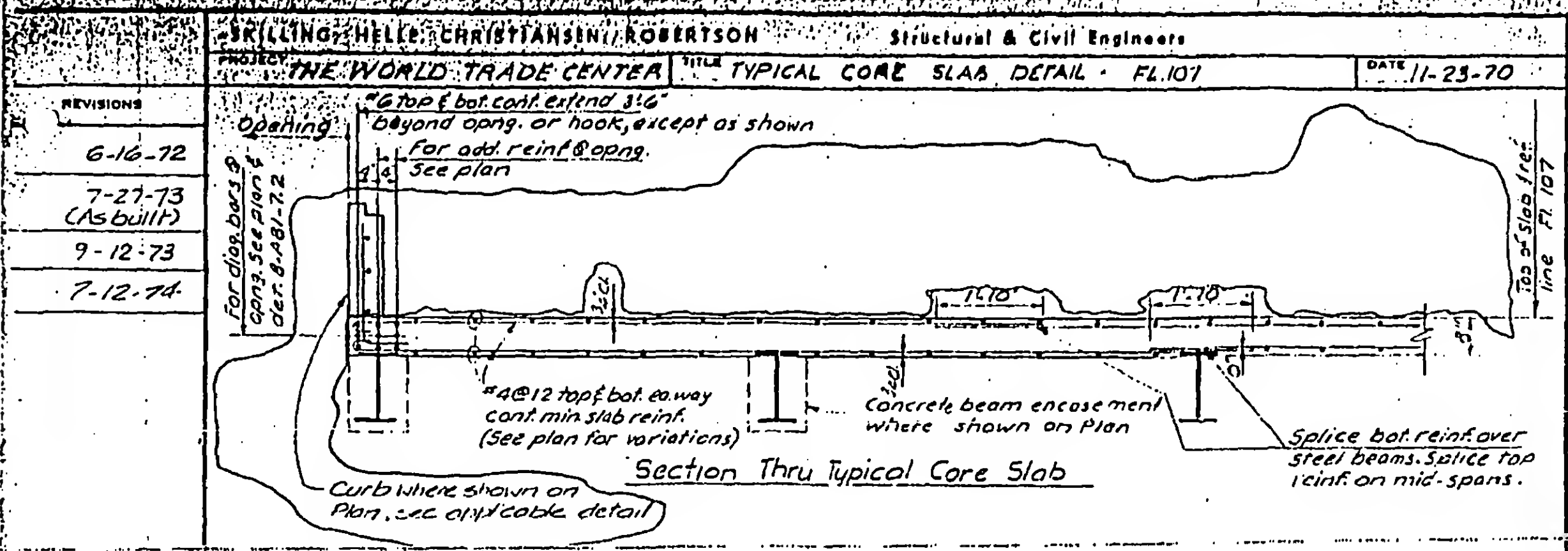
Section	"H"
A-A	0 (no curb)
B-B	0 (no curb)
C-C	1'-10"
D-D	1'-6"
E-E	3'-10"
F-F	1'-10"
G-G	1'-10 1/2"
H-H	2'-0"

Note: See detail 8-AB10-1.4
for typical core
slab detail



DESIGNED JTM
DRAWN F. Smith

WCB



DESIGNED BY
JTM

DRAWN BY
F. Smith

CHECKED BY
(Signature)

8-AB10-1.4

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE TYPICAL DETAILS CORE AREA - FLOOR 107

DATE 11-23-70

REVISIONS

6-16-72

7-27-73
(As built)

9-12-73

10-4-73

7-12-74

Provide inserts
for grating
support (See
Arch Dwg for
details)6-#4 Cont. (lap as per
typical details)Grating
only where shown on plan

#4@12 Ties

Ref. line
Floor 107See variation at
Sect. H-H 11'-11" belowFor curb info.
See 8-AB10-1.3

#3@12 1'-6"

2' sent

Slab over

#4@8

Note:

Joints shall be thoroughly
cleaned of loose material
and coated with epoxy
bonding compound prior
to casting slab overBars extend from
typ. slab inf. see
plan & typ. detail
8-AB10-1.4* Dimension based on
shop drawing

Section G-G

2" scat

Curb

Beam if shown
on plan

Section H-H

Slab over -
see Sect. H-H

Curb 2' sent

1' scat

Slab over -
see Sect. H-H

#3@12

#4 (typ.)

Exist.
#3@12

El. 0'-0" (Ref. Fl. 107)

Exist. slab

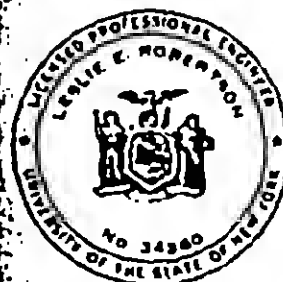
Exist. #3@12

#4 (typ.)

Exist. slab

Section H-H

8-AB10-1.6

DESIGNED
L. QUIRKODRAWN
A. FRANQUI

PROJECT THE WORLD TRADE CENTER

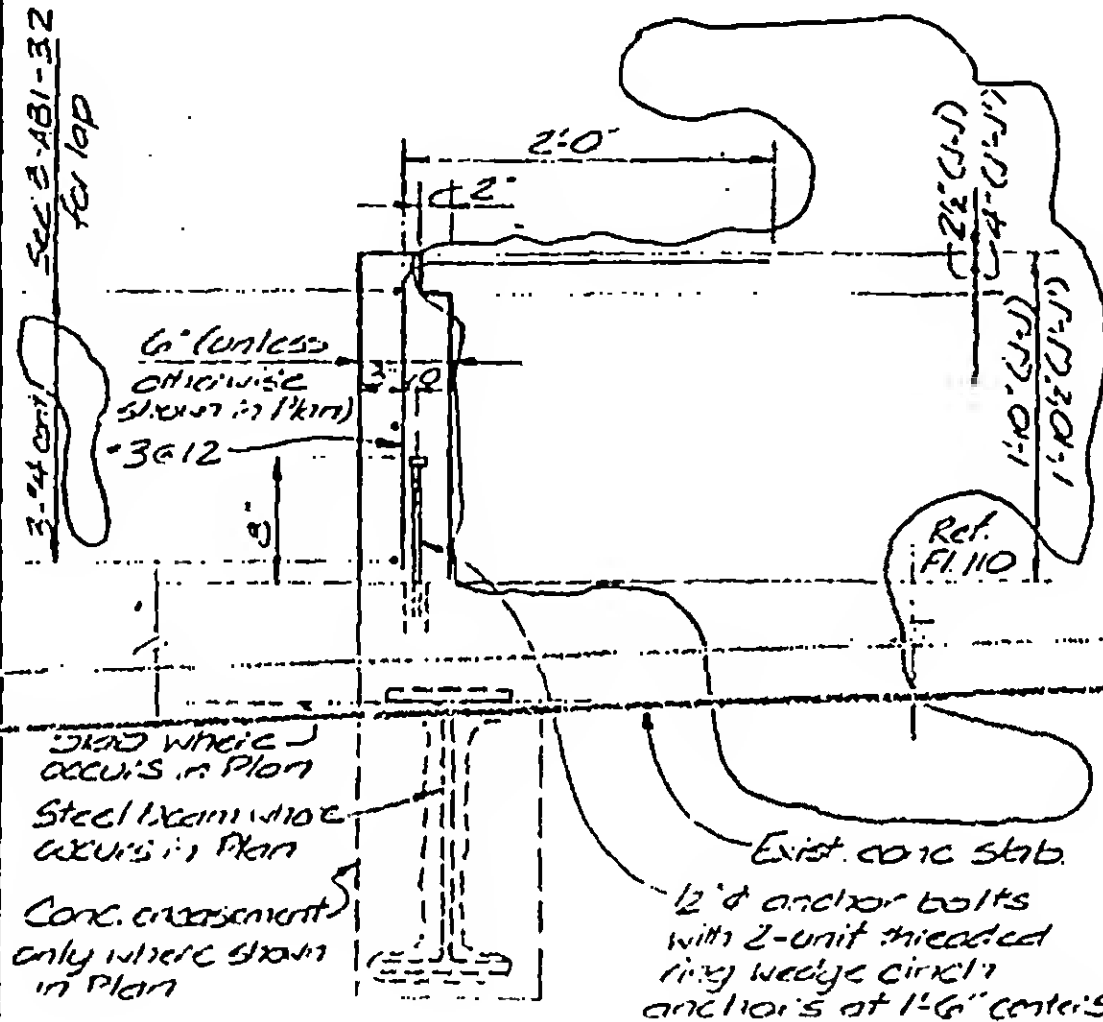
TITLE TYPICAL DETAILS - CORE AREA - FLOOR 107

DATE 9-12-73

REVISIONS

7-12-74

3-4 Cont. Sec 2-AB1-32
for 10p



IRON WHERE
 occurs in Plan
 Steel Exam where
 occurs in Plan
 Conc. encasement
 only where shown
 in Plan

Exist. conc slab.
12" d anchor bolts
with 2-unit threaded
ring wedge circl
anchors at 1'-6" centers

Section J-J

Section J'-J'

Exist. #3 @ 12 curb bars...
Bend down into slab over

Ref Fl. 107. -
top of slab

Slab over after installation of ducts or pipes has been completed (K-K')

1. 3 @ 4 each way (Cu.
to fit in the field.
Splice all interrupted
bars at ducts or pipes
per typ. detail (S.K.K.)
2. 4 @ 8 each way (K-K')

- * Cut 2"x4" scarf as shown without damaging existing reinforcing. Clean & roughen entire surface of existing concrete at joint prior to casting new concrete

Section K-K

Section K'-K



JTM

J B. L.

● 2013 年 11 月 10 日

B-AB10-1.7

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

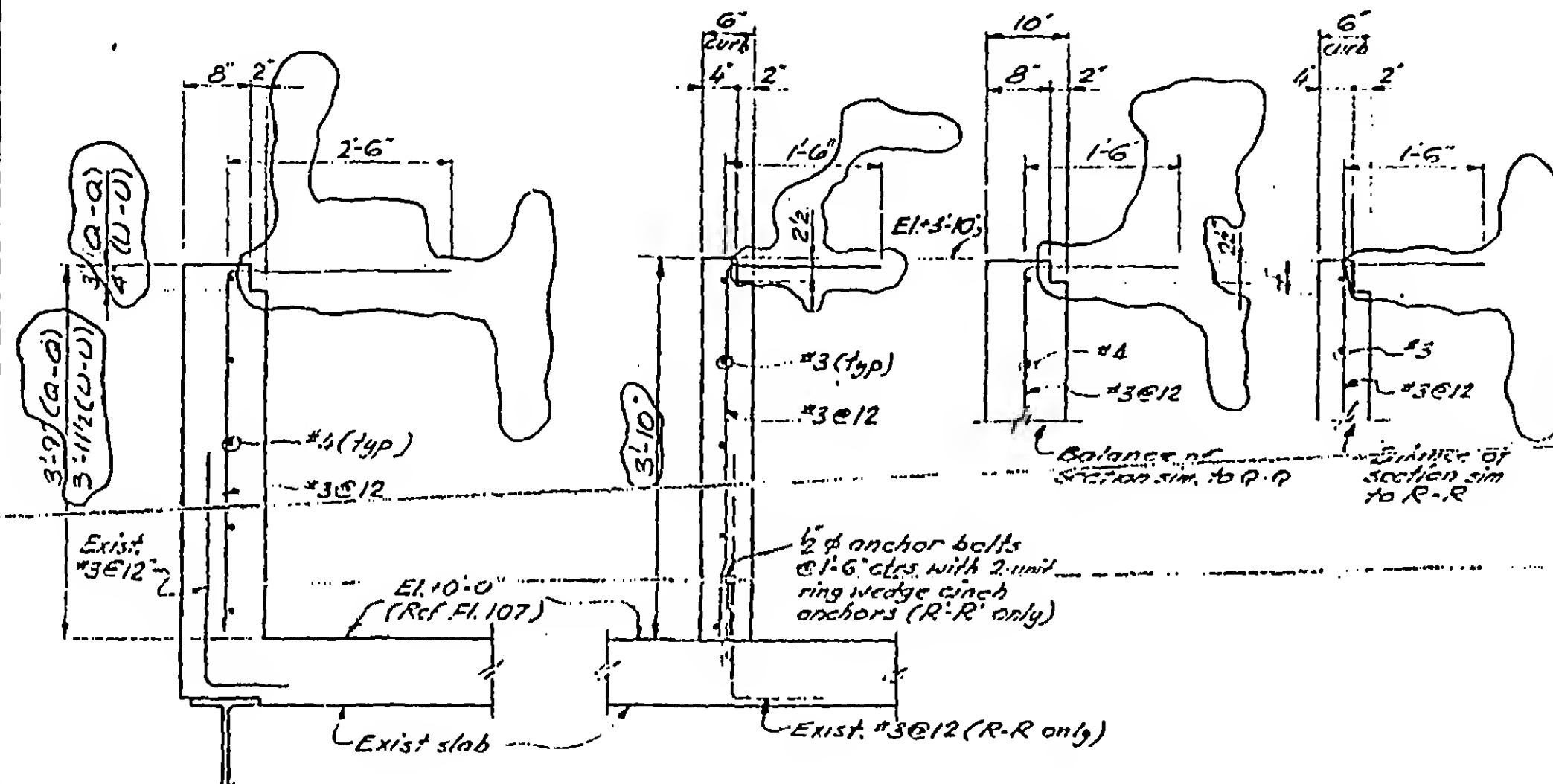
PROJECT THE WORLD TRADE CENTER

TITLE TYPICAL DETAILS-CORE AREA - FLOOR 107

DATE 9-12-73

REVISIONS

7-12-74

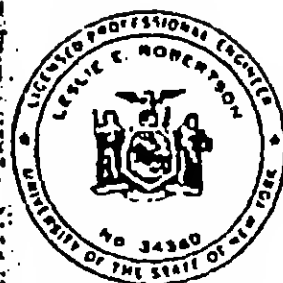


Section Q-Q
Section U-U

Section R-R
Section R'-R'

Section S-S

Section T-T



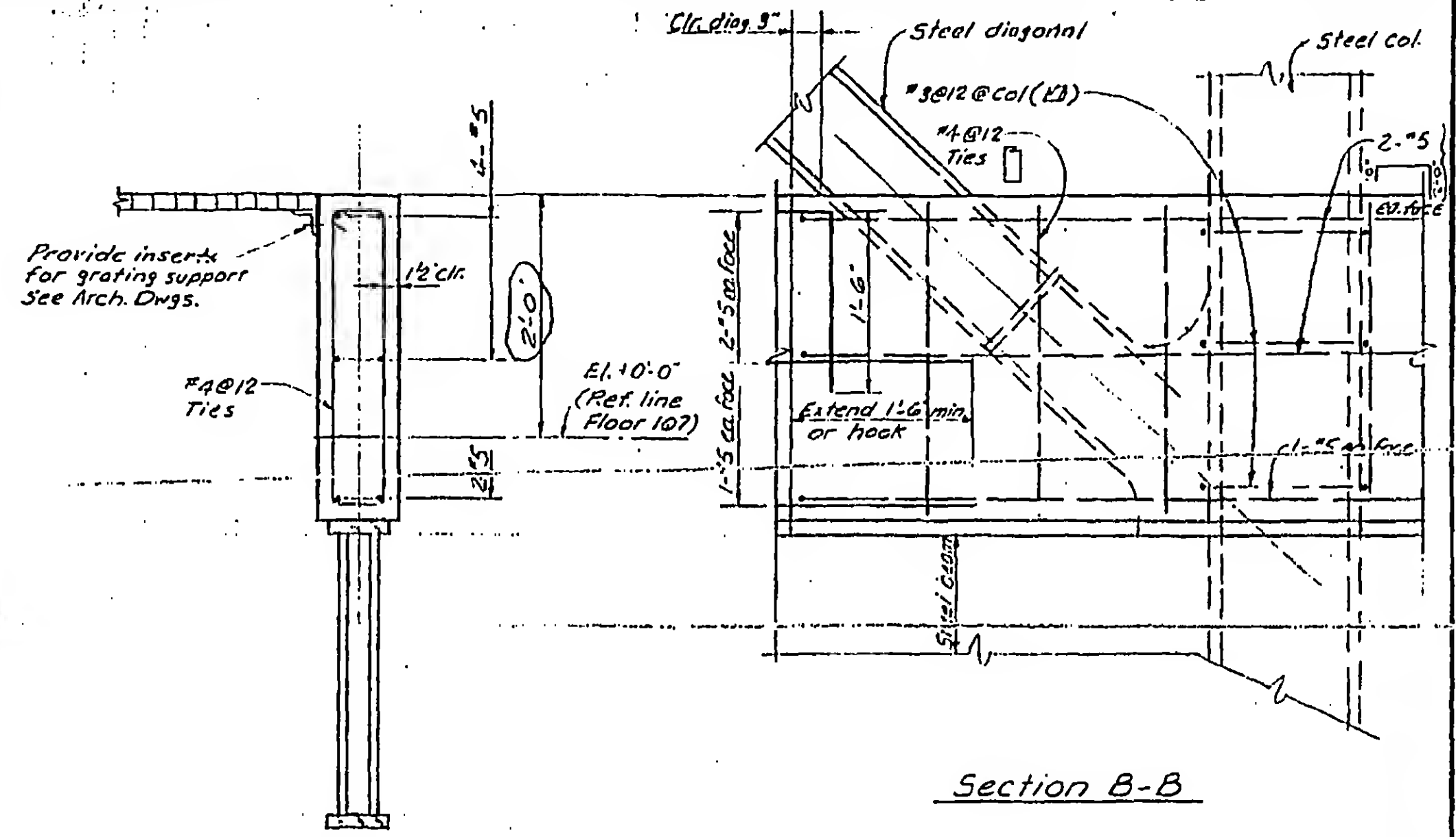
DESIGNED JTM

DRAWN JG

CHECKED

S-AB10-1.9

REVISIONS
6-16-72
7-27-73 (As built)
9-12-73
7-12-74



DESIGNED BY
L. QUIRKO

DRAWN BY
A. FRANQUI

CHECKED BY
[Signature]

KILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT CORE AREA - FLOOR 107

DATE 11-23-70

REVISIONS

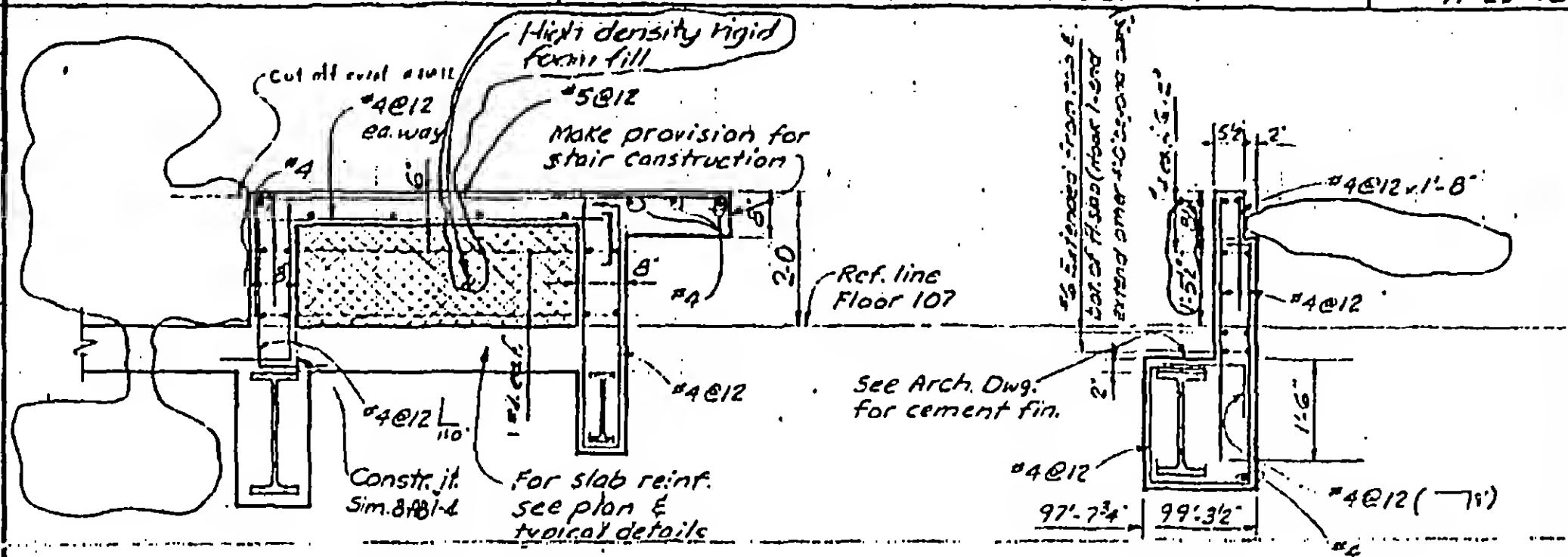
3-1-71

6-16-72

7-27-73
(As built)

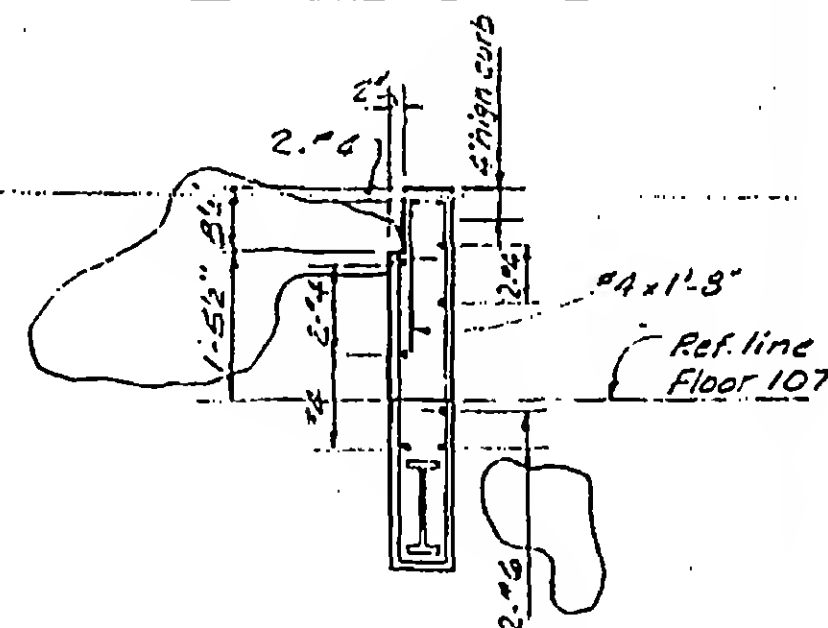
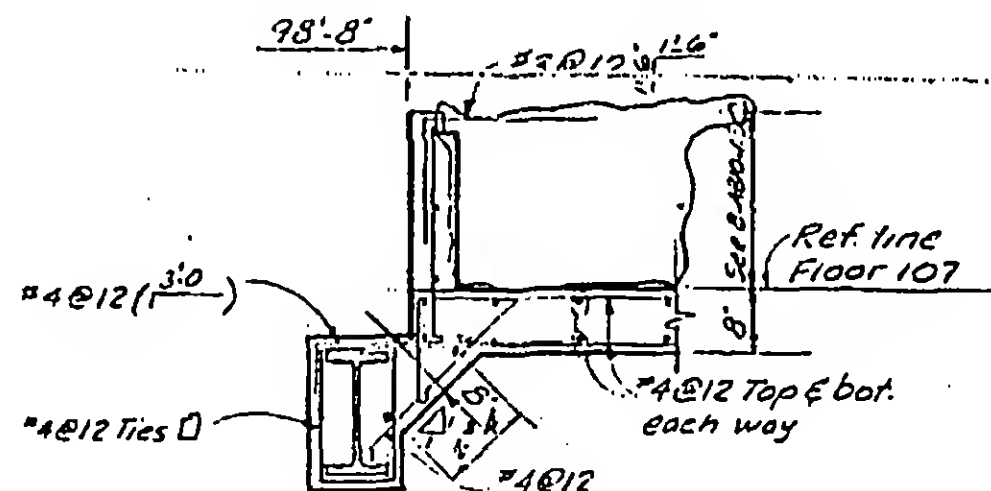
9-12-73

7-12-74



Section C-C

Section D-D



Section E-E

Section F-F

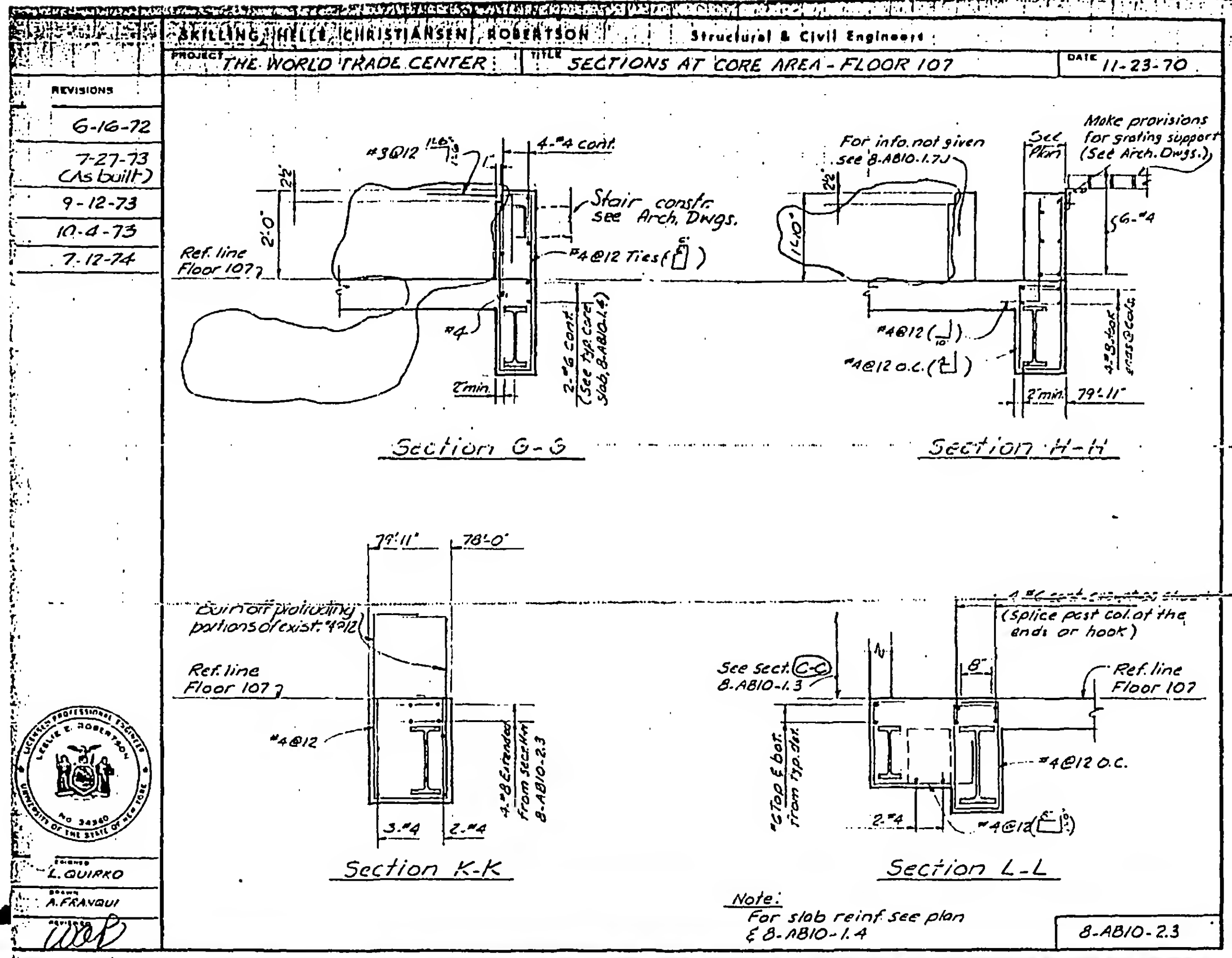


DESIGNED
L. QUIRKO

DRAWN
A. FRANQUI

WLP

8-AB10-2.2



DESIGNED
L. QUIRKO

DRAWN
A. FRANQUI

REVIEWED
WEP

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

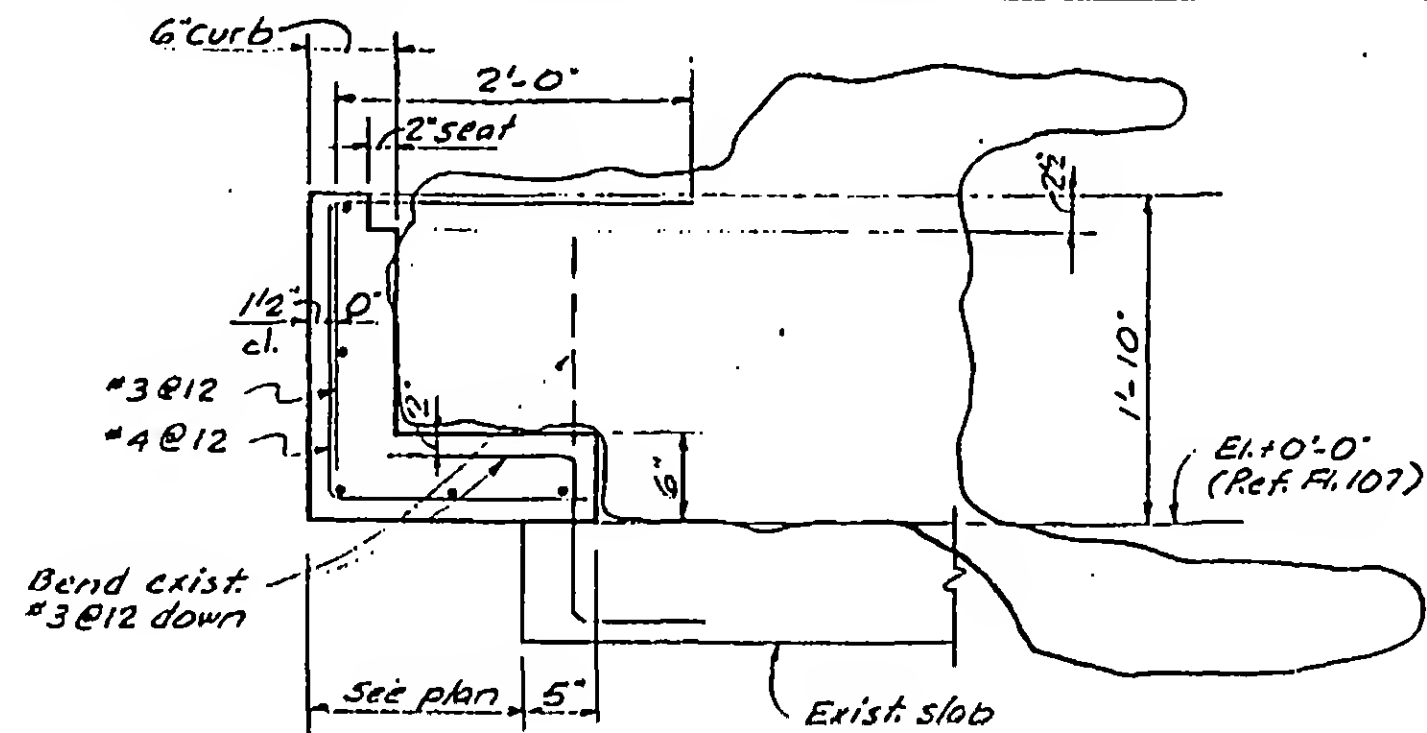
PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT CORE AREA - FLOOR 107

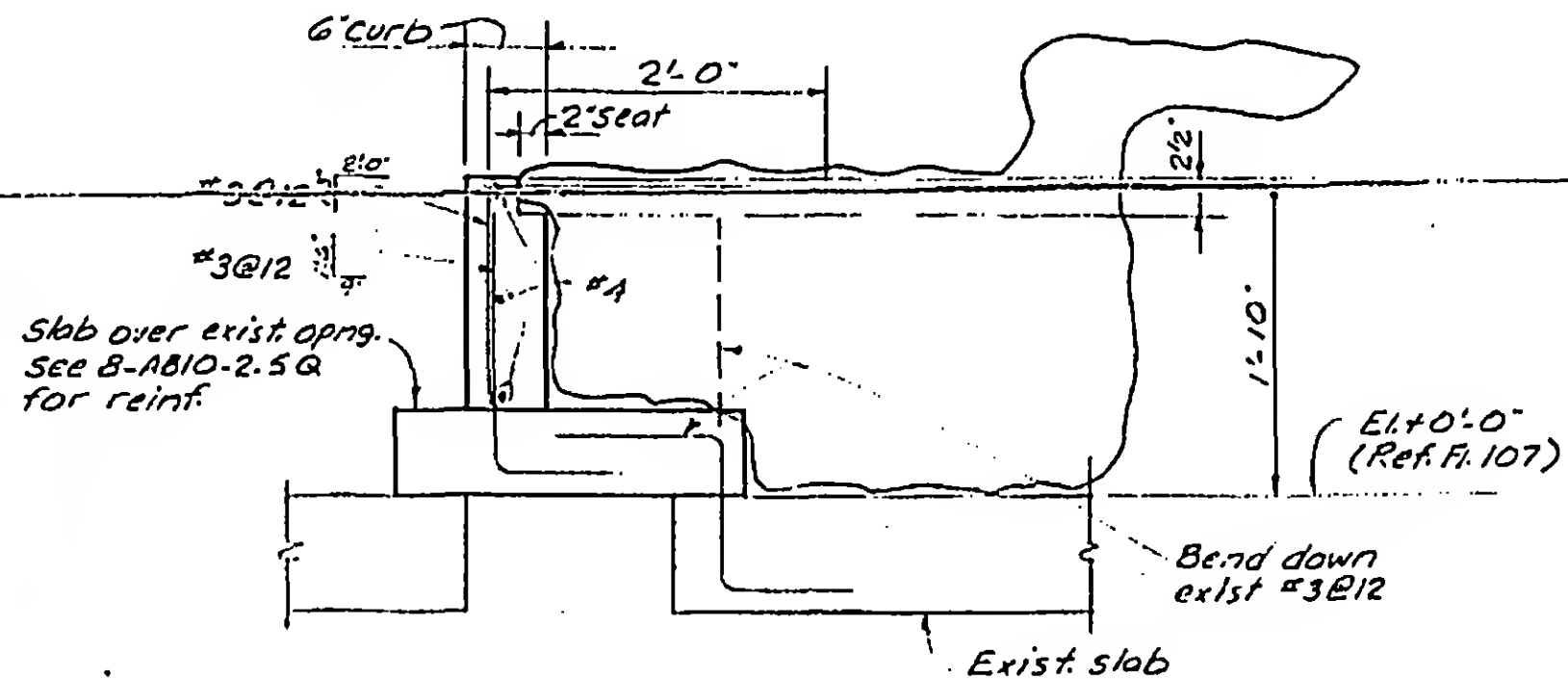
DATE 9-12-73

REVISIONS

7-12-74



Section M-M



Section N-N



DESIGNED JTM

CHECKED ALF

REGISTERED

8-AB10-2.4

SKILLING HELLER CHRISTIANSEN ROBERTSON

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

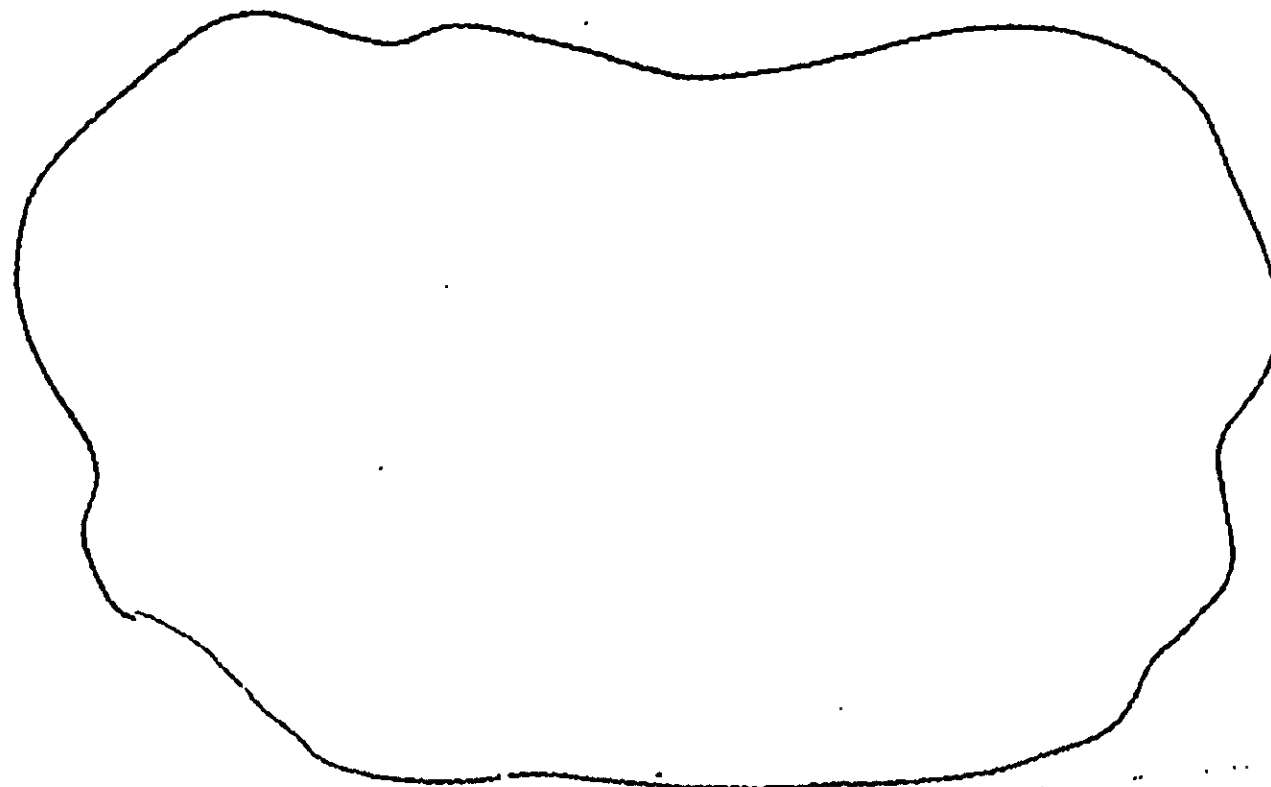
SECTIONS AT CORE AREA - FLOOR 107

DATE

7-12-73

REVISIONS

7-12-74



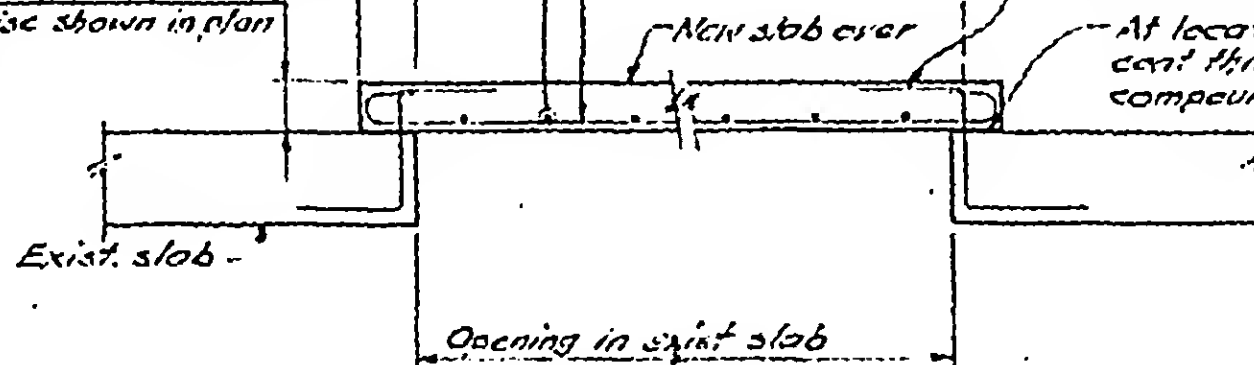
* Use this reinf. unless otherwise shown in Plan.

* 4 @ 12' c.c. * (min 3 #4) - long direction of span, hook ends

* 4 @ 10' c.c. * - short direction of span, bottom layer, hook ends

5' overlap (typ. all around)

UNLESS OTHERWISE NOTED

4' new slab over unless
otherwise shown in planBend exist dowels down into slab over
(typ. all around)At locations where there are no exist. dowels,
coat this entire surface with epoxy bonding
compound before casting new slab over.

Section Q-Q



DESIGNED

J.T.M.

DRAWN

J.C.

REVIEWED

L.R.

S-AB10-2.5

SKILLING, HELLER, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

SECTIONS AT CORE AREA - FLOOR 107

DATE

9-12-73

REVISIONS

10-4-73

7-12-74



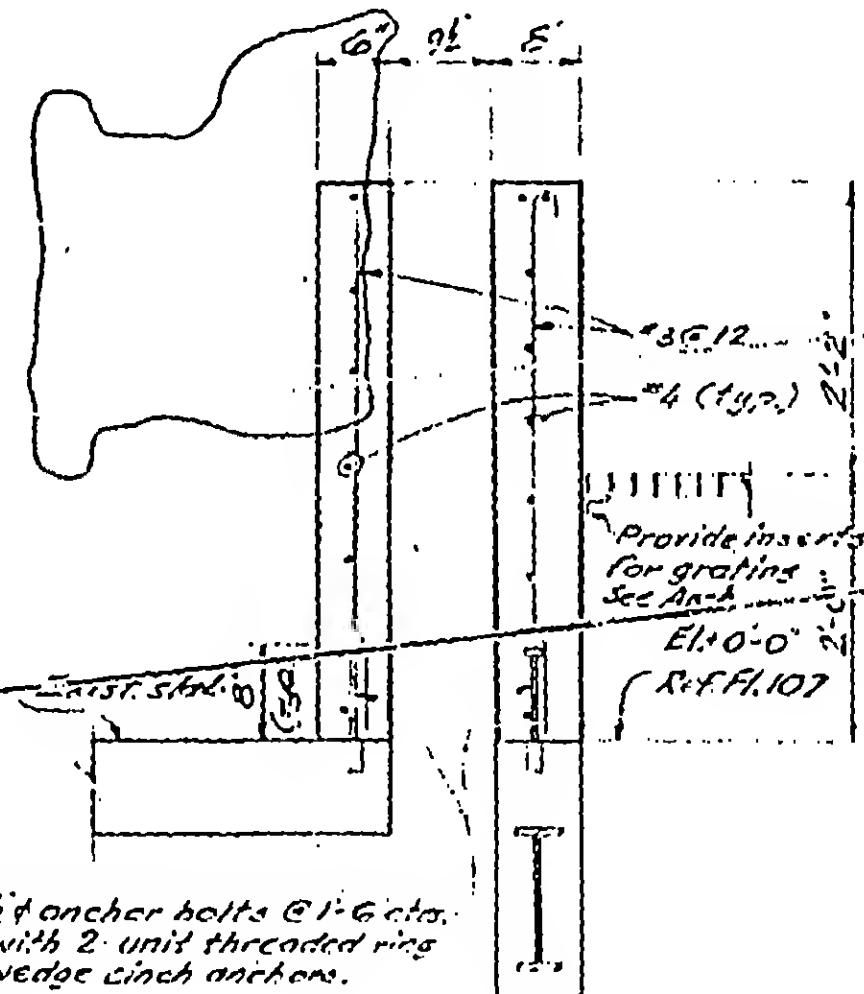
DESIGNED

J.T.M.

DRAWN

J.G.

CHECKED

Section S-S

S.A.D. 2.6

SKILLING, HELL, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SECTIONS AT CORE AREA - FLOOR 107

DATE 9-12-73

REVISIONS

10-4-73

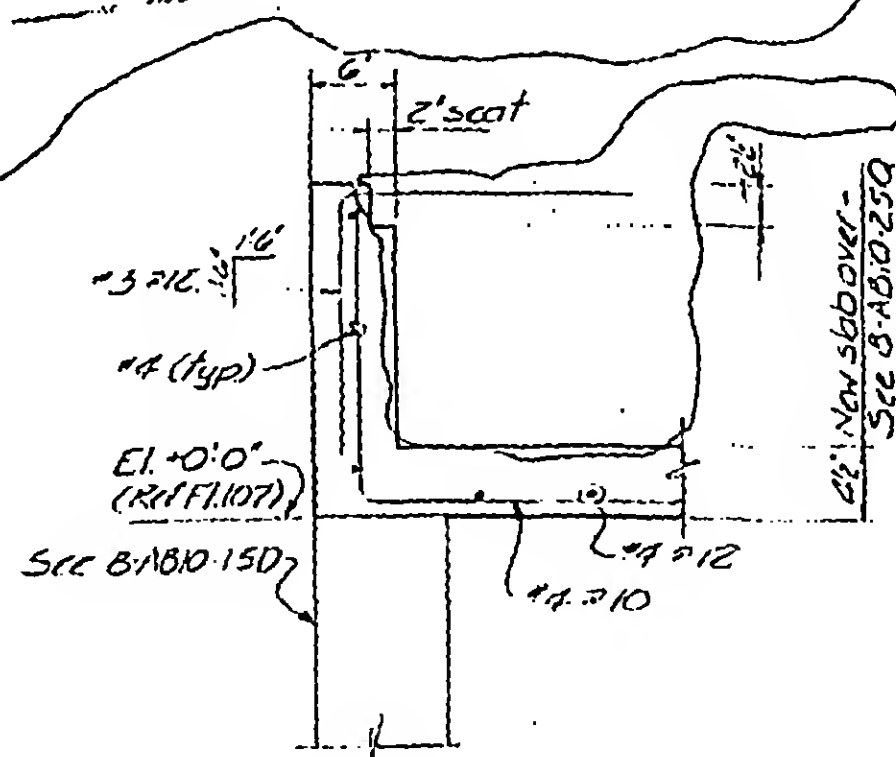
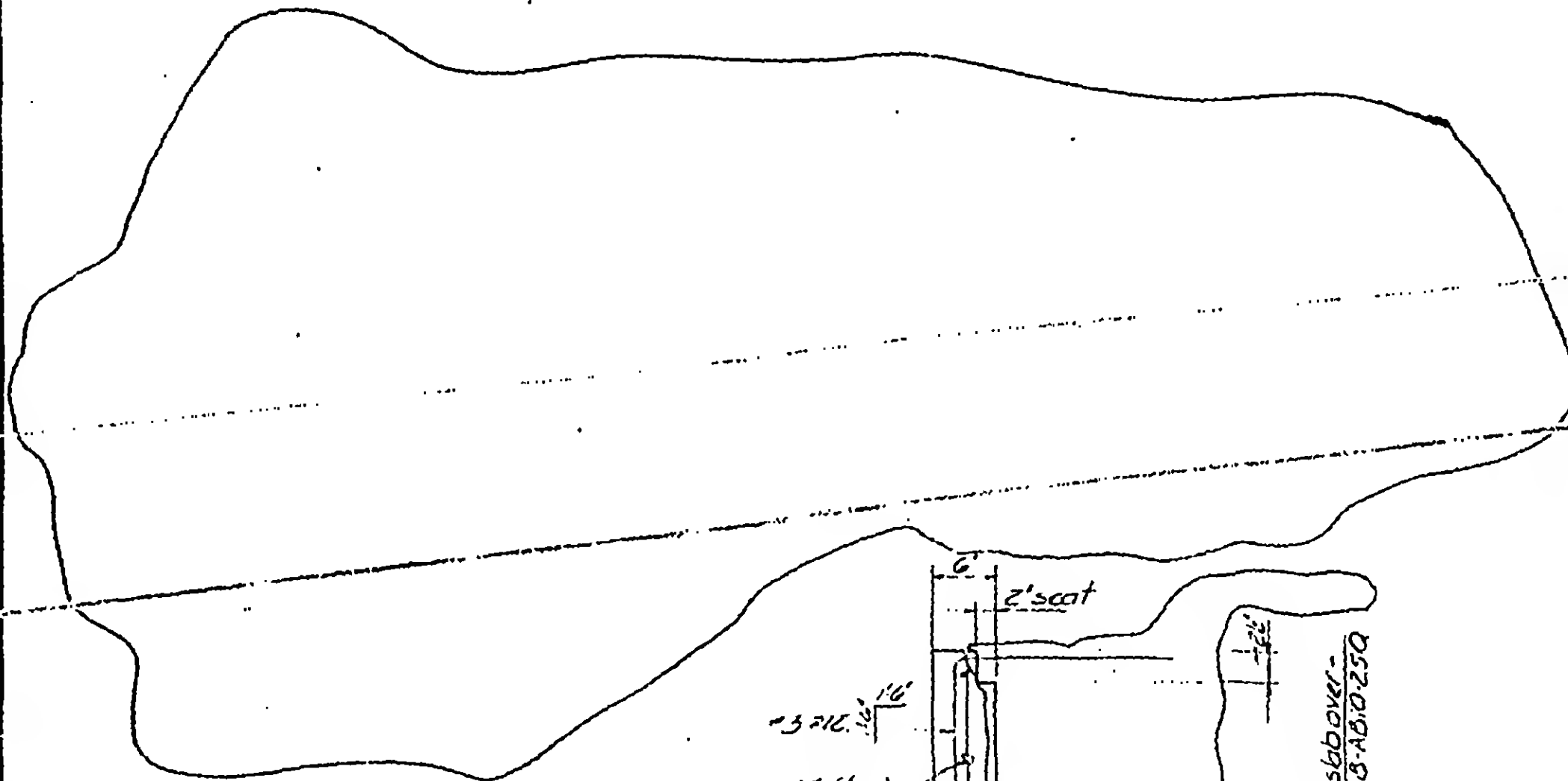
7-12-74



DESIGNED
JTM

DRWN
J. Baker

REVIEWED
JTM



Section W-W

8-AB10-2.7

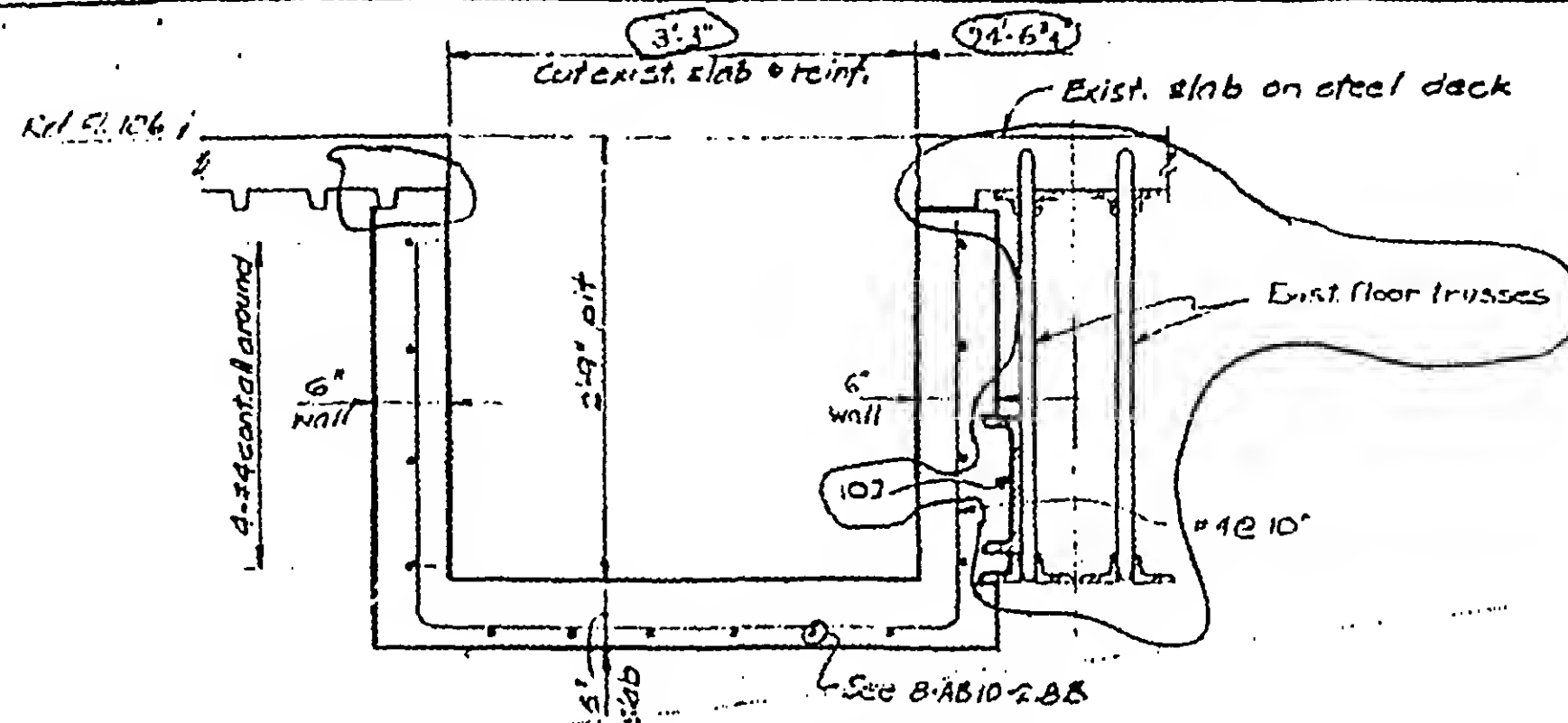
Structural & Civil Engineers

TITLE SECTIONS AT CLIMBWAITER - FLOOR 106

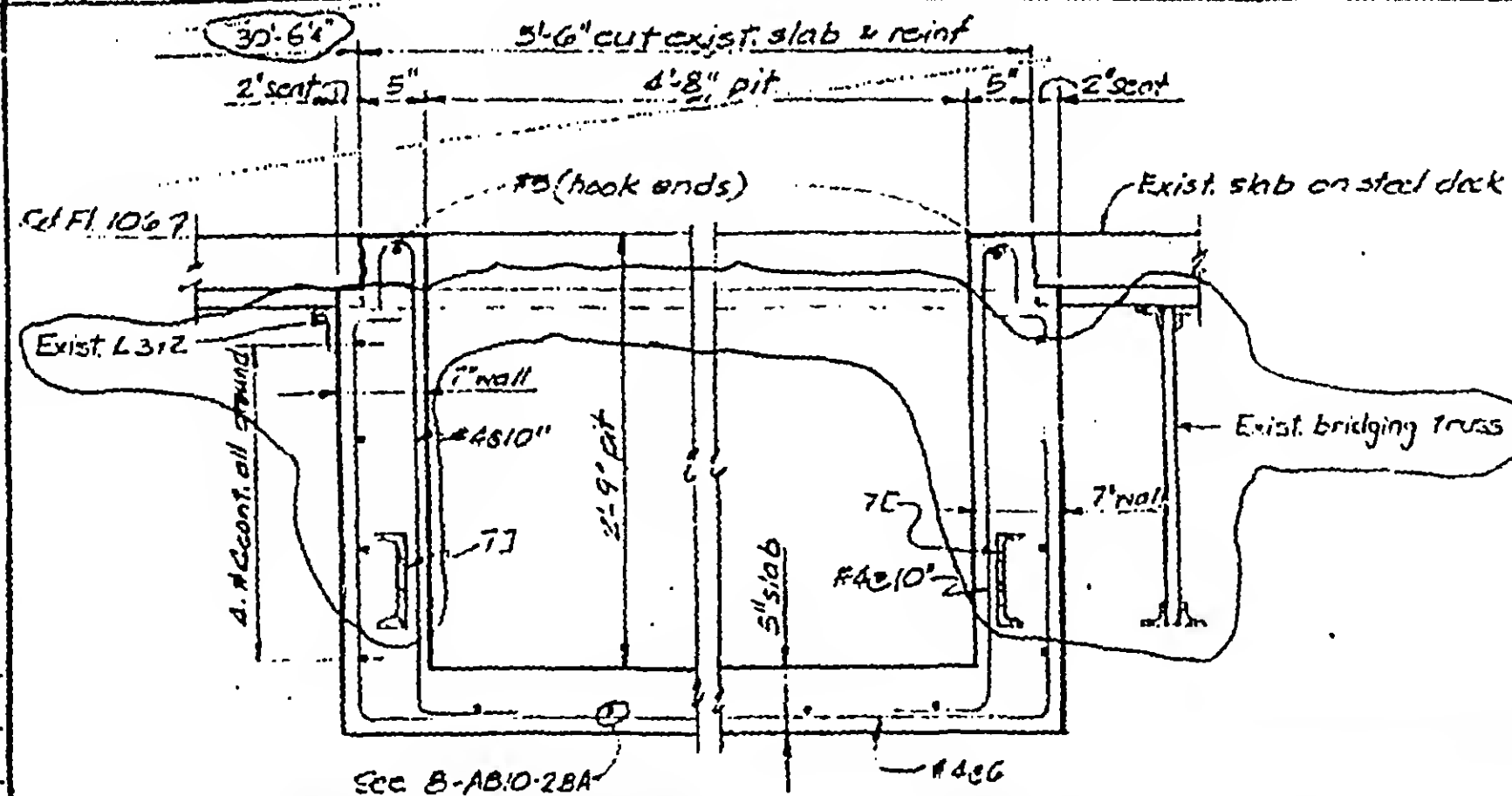
DATE 11-9-73

REVISIONS

6-27-74



A
B



NO-2.8



9-8 4 1 4 4 4 5

55

2000

1916-17

7/11/2

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

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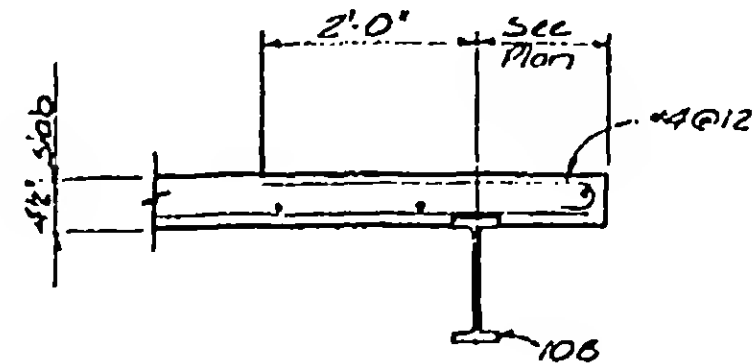
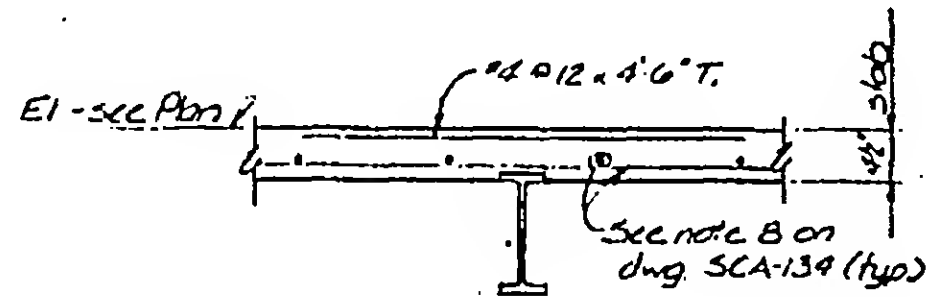
PROJECT THE WORLD TRADE CENTER

TITLE CONCRETE SECTIONS - RAISED LEVEL FLOOR 107

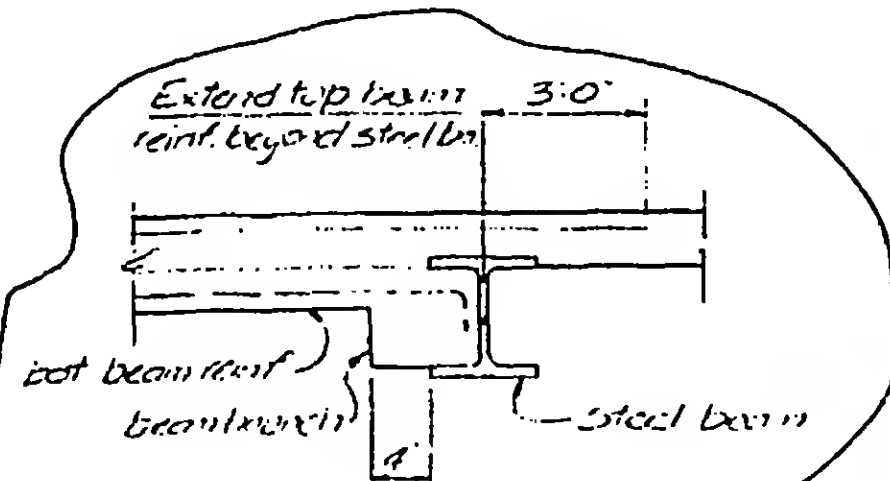
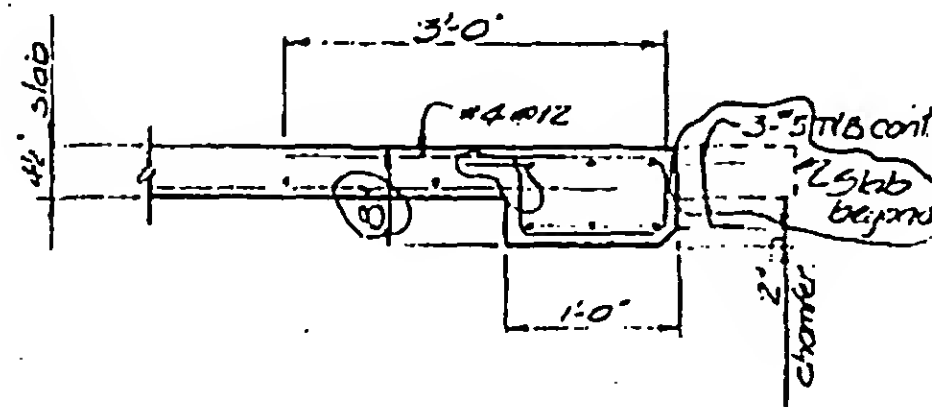
DATE 11-9-73

REVISIONS

6-27-74



A B



C E

B-AD-2.10



DESIGNED JTM

CHARTERED ENGINEER

REVIEWED WAB

Structural & Civil Engineers

TITLE CONCRETE SECTIONS RAISED LEVEL FLOORING

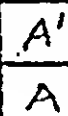
DATE	11-9-73
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REVISIONS

12-28-75

6-27-74

7-12-74



Note:
Reinforcement similar
to 8-A610-2.11A



084448 D
J.T.M

PHOTO 12

111B

B-10-2.11

SKILLING, HILLE, CHRISTIANSEN, ROBERTSON Structural & Civil Engineers

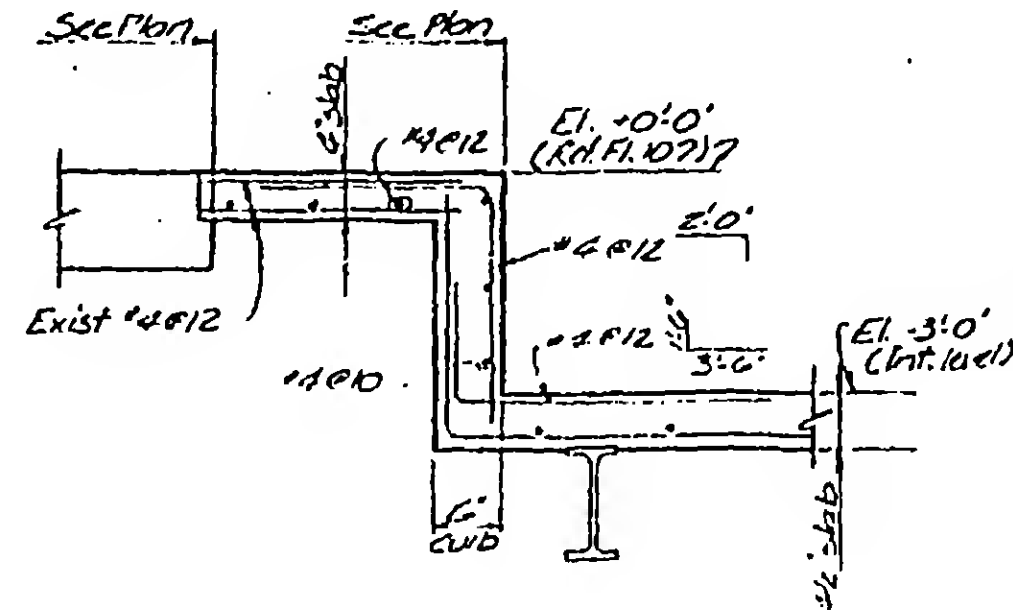
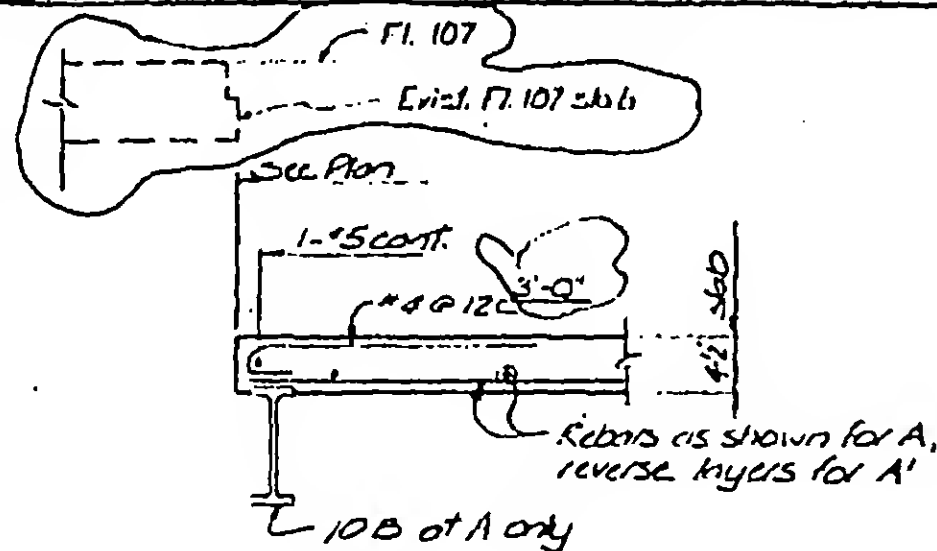
PROJECT THE WORLD TRADE CENTER

TITLE CONCRETE SECTIONS - INTERMEDIATE LEVEL FL. 107

DATE 11-9-73

REVISIONS

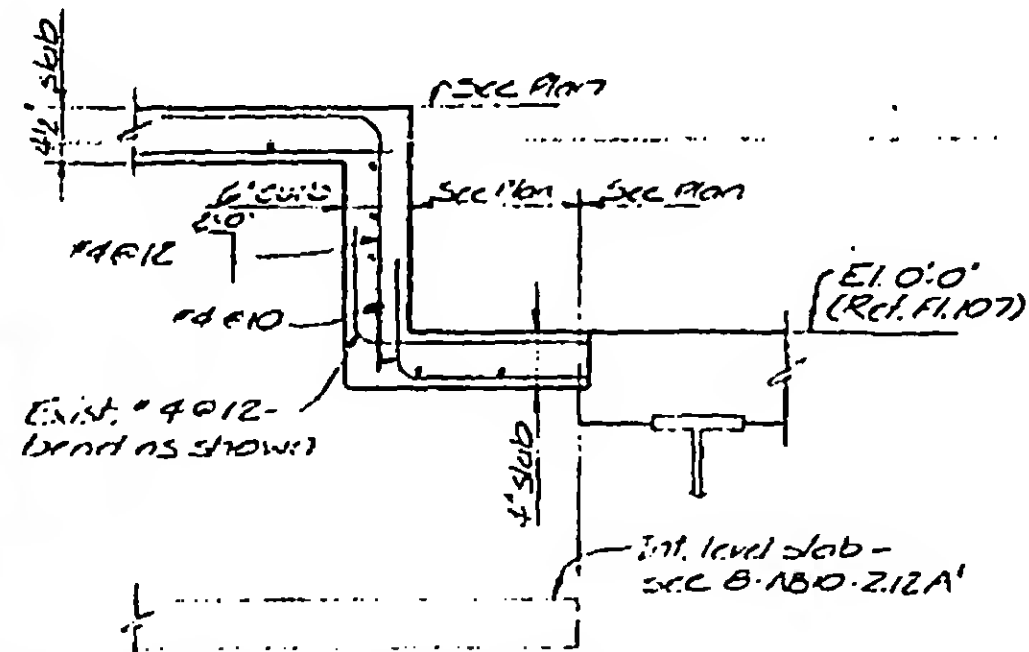
6-27-74



A

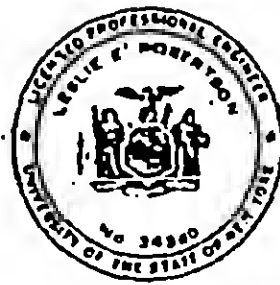
A'

B



C

B-A 10-2.12



DESIGNED J.T.M.

CHECKED J.B.

APPROVED WAB

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

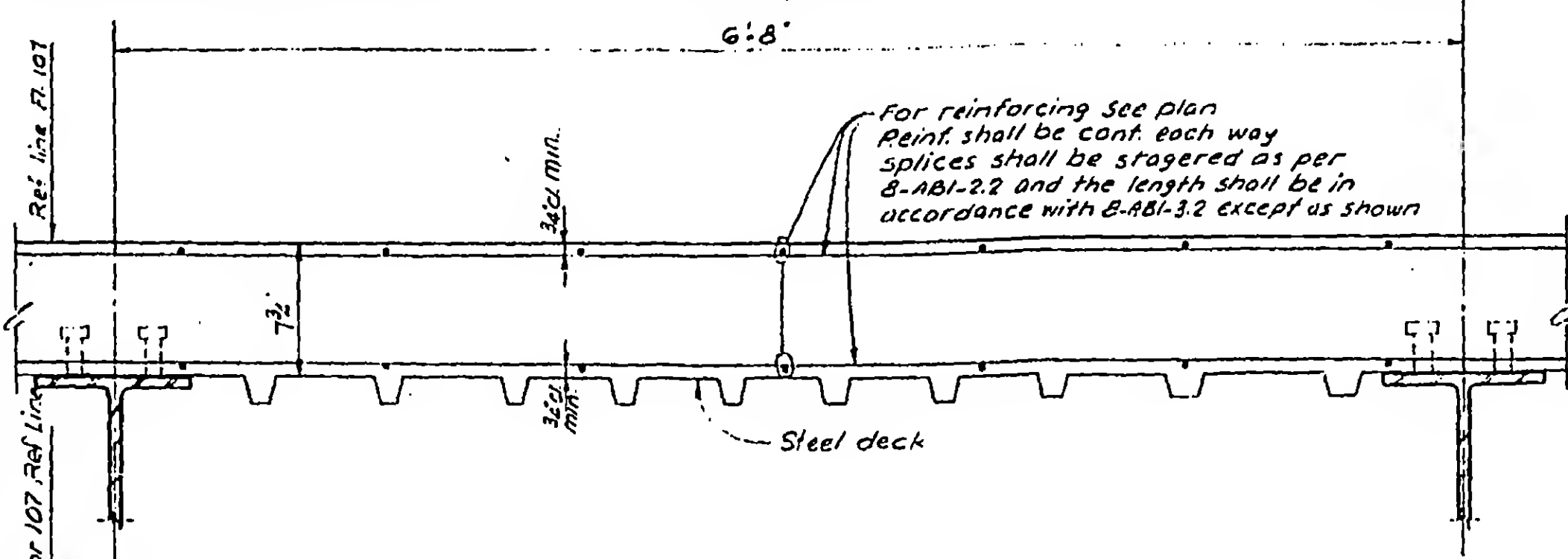
Structural & Civil Engineers

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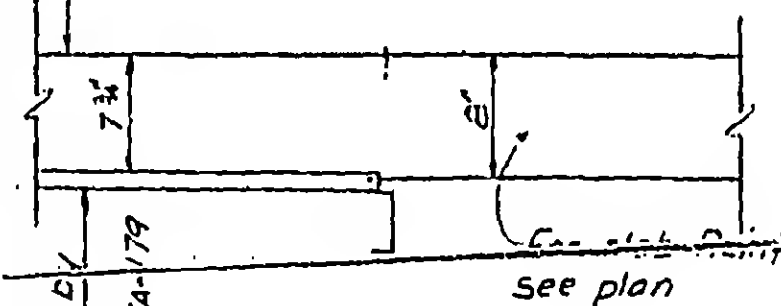
TITLE TYPICAL SLAB DETAILS - FLOOR AREA - FL 107

DATE 1/23/70

REVISIONS



Section A-A



Section B-B

(Typical @ Transition between timber forms
& Steel Deck)

DESIGNED

T. Terrelange

REVIEWED

B-ABI0-3.1

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

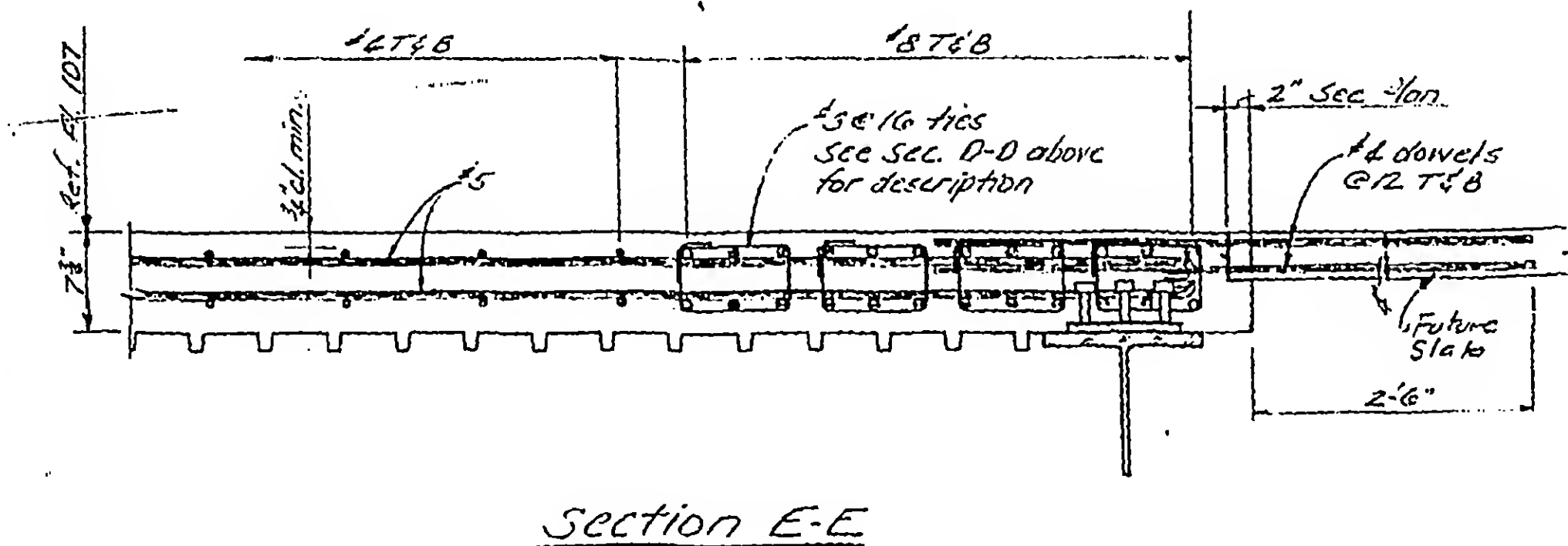
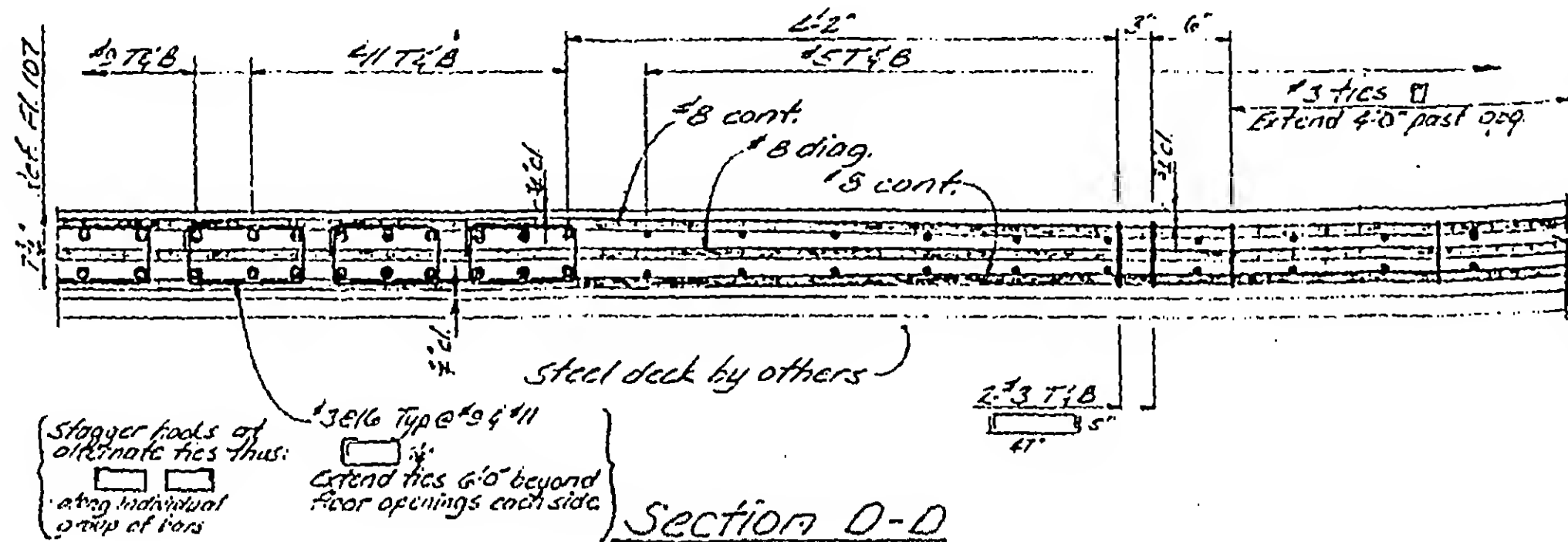
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE CONCRETE SLAB SECTIONS - FLOOR AREA - FLOOR 107

DATE 11/23/70

REVISIONS



DESIGNED

DRAWN

REVIEWED

8-AE10-7E

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

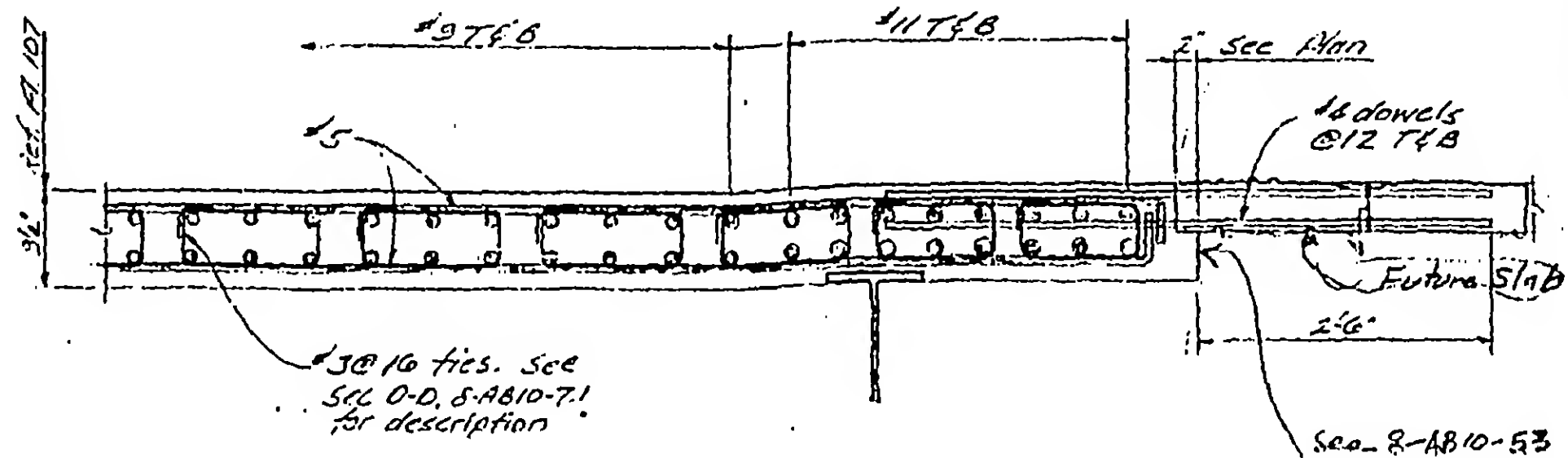
Structural & Civil Engineers

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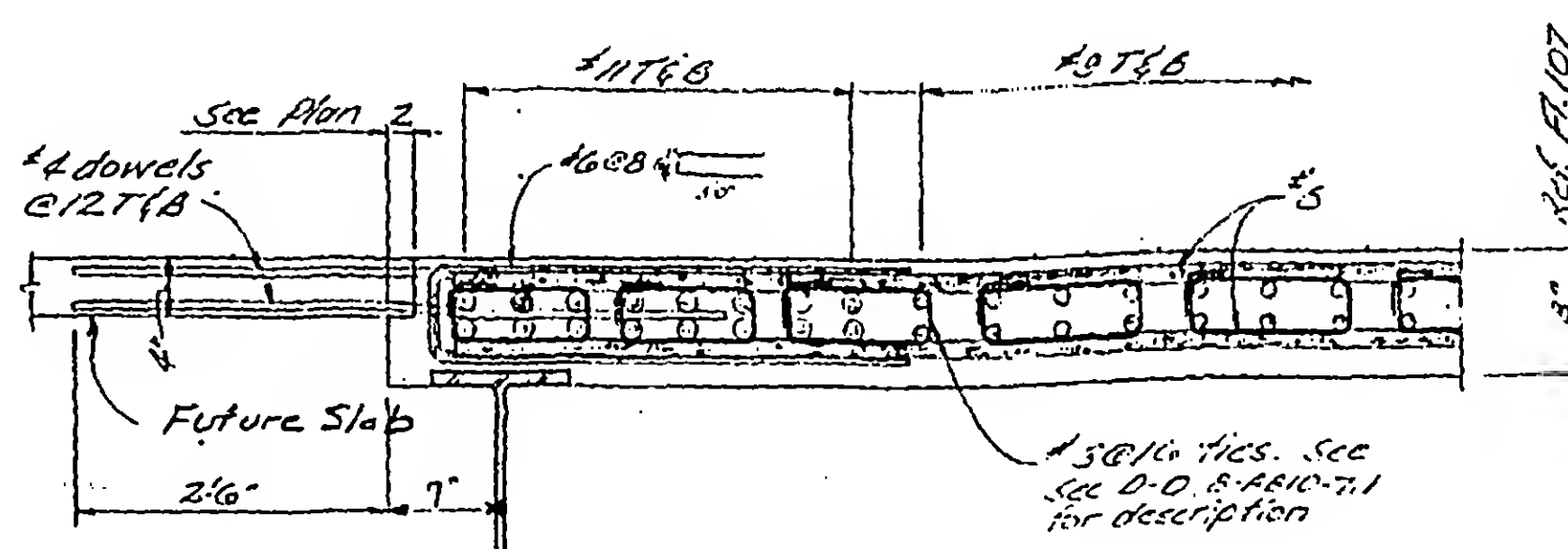
TITLE CONCRETE SLAB SECTIONS - FLOOR AREA - FLOOR 107

DATE 11/23/70

REVISIONS



Section F-F



Section G-G



DESIGNED

DRAWN

CHECKED

S-AB10-3.3

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

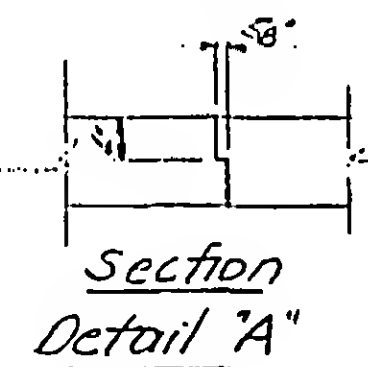
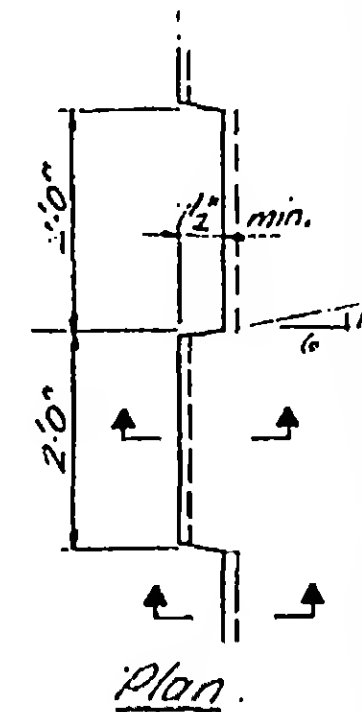
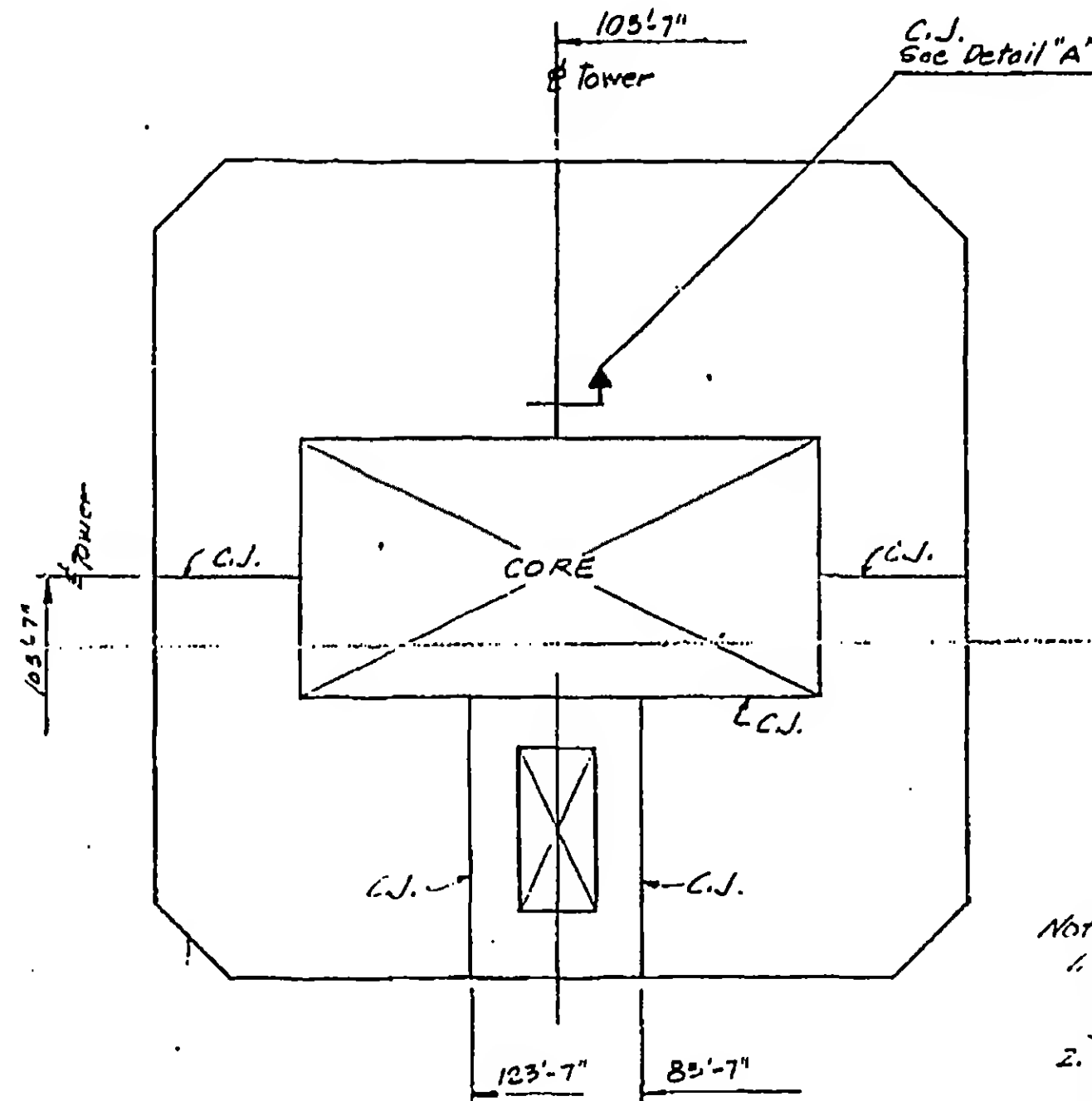
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE CONSTRUCTION JOINT LAYOUT- FLOOR 107

DATE 11/25/70

REVISIONS



Notes:

1. Top and bottom reinforcement shall be continuous thru joints.
2. Joints to be thoroughly cleaned of loose material, and coated with holding agent prior to completion



DESIGNED

REVIEWED

8-AB10-4.1

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

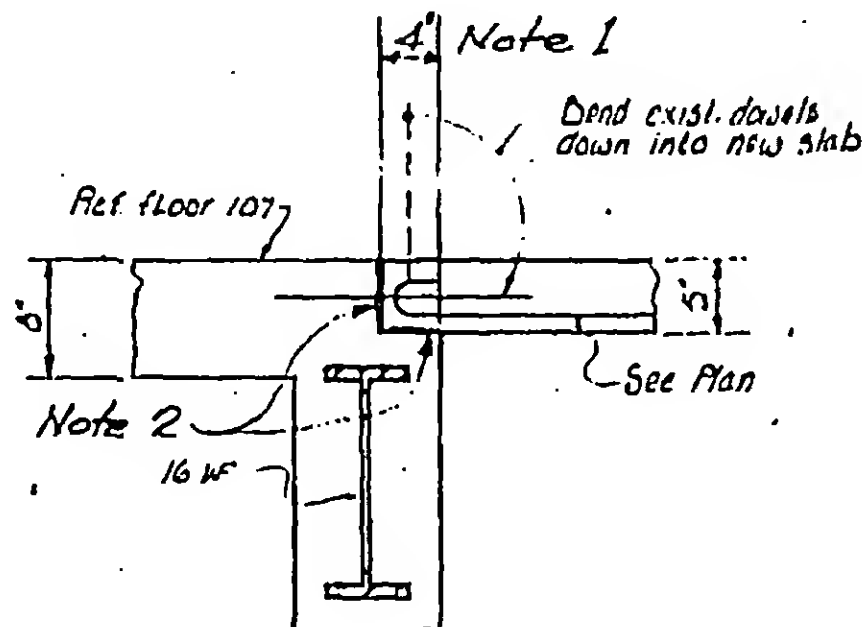
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

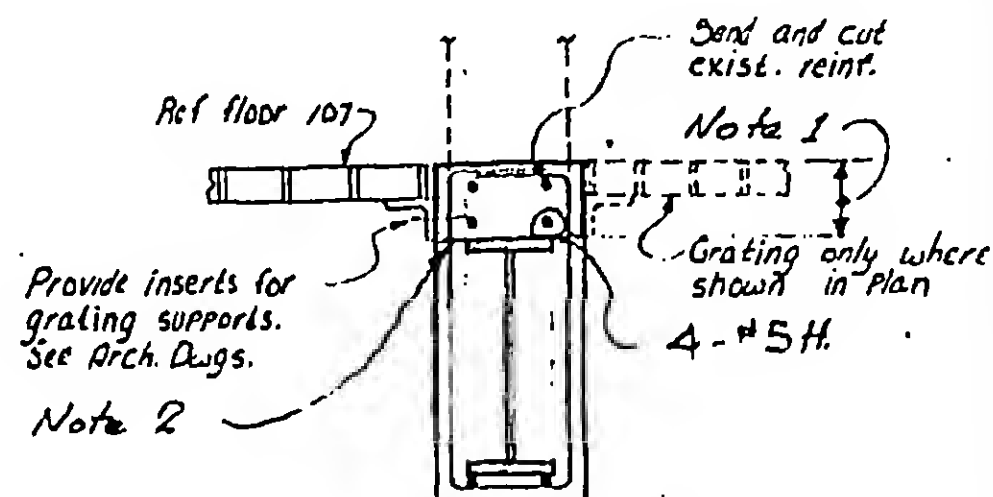
TITLE SECTIONS AT CORNER AREA - FLOOR 107

DATE 10-18-74

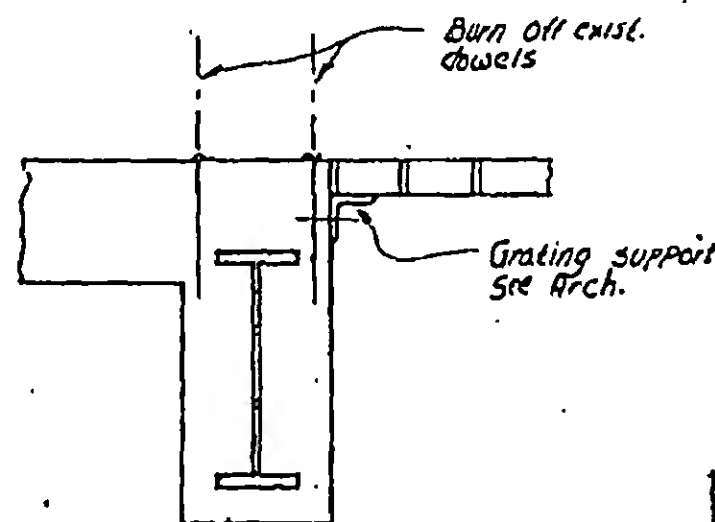
REVISIONS



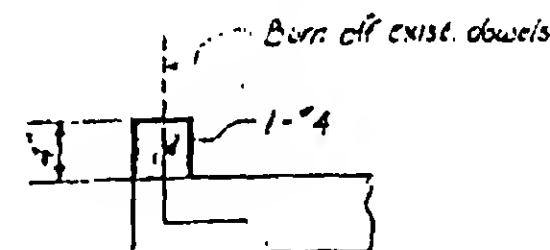
A



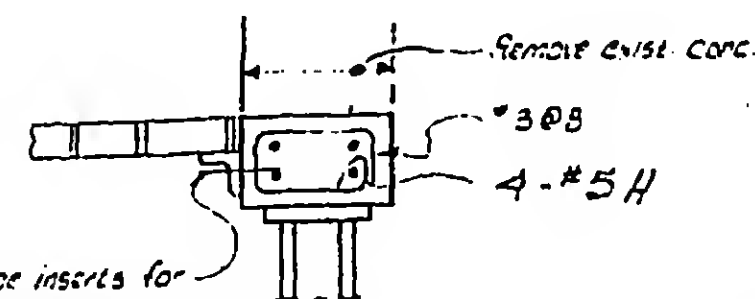
B



C



D



E

Note 1- Remove existing concrete without damage to existing reinforcing.
Note 2- Clean face of existing concrete and thoroughly coat entire surface with epoxy bonding compound.

8-B/0-9



DESIGNED JTM

DRAWN DISTINGUISH

REVIEWED WAB

Exist. slab

Lap new bottom bars (See 8-AB1-3)

Section A-A

See plan

El. 310'-0"

1'-1/2"

1'-1/2"

2'-0"

Remove exist. slab to exist. construct
without damage to existing bars.

Exist. slab

New bot. reinf. bars, see plan

1'-6" min.

Section B-B



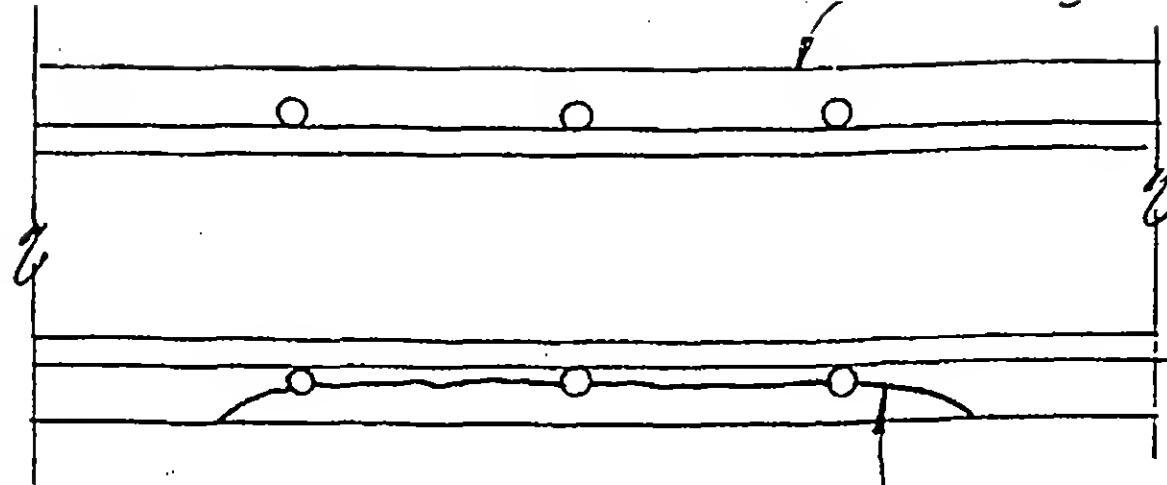
DESIGNED

WAS

DRAWN

WAS

REVIEWED



Bush hammer &
then buildout &
surfaces with
concrete.

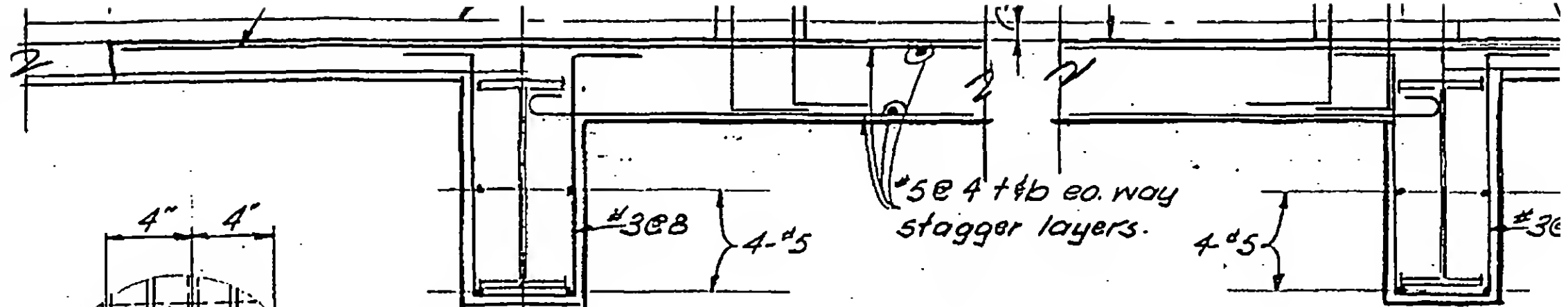
Note: Repair to be accomplished in an
indicated in plan as directed by
Engineer.



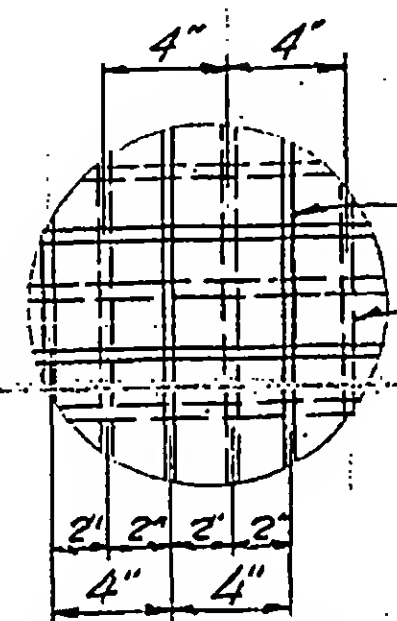
DESIGNED
WAB

DRAWN
P. M. B. C.

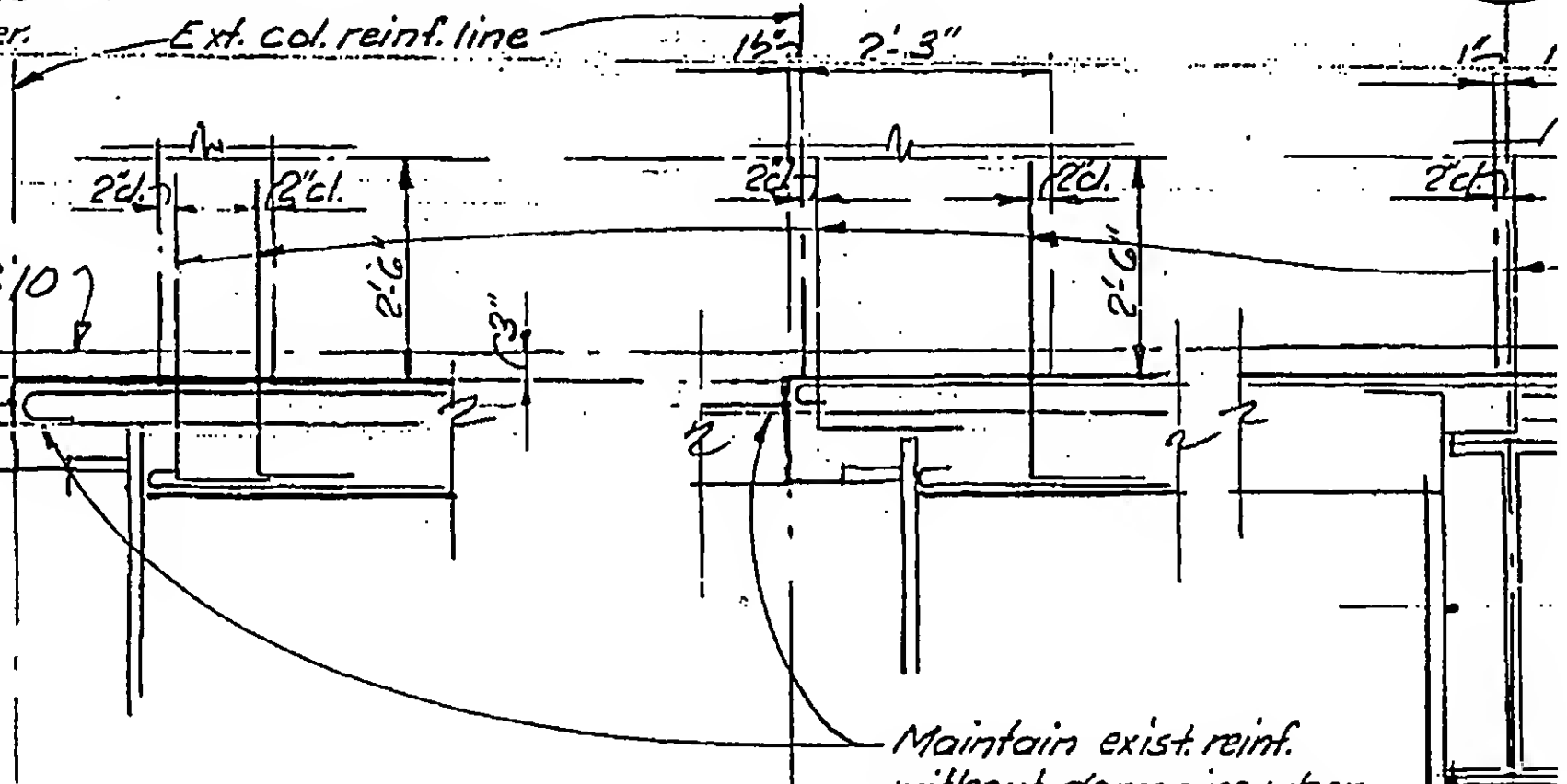
REVIEWED



Section A-A



Typical Detail El. 3'10"
Staggering of
layers #5 @ 4"



Section B-B

Section C-C

Section



DESIGNED

DRAWN

REVIEWED

W. Brewer

PRINCETON DATAFILM INC.

PRINCETON SERVICE CENTER, U. S. 1, BOX 231, PRINCETON JUNCTION, N. J. 08550 (609) 799-1630

DATE FILMED

February 18, 1980

I hereby certify that the microphotographs appearing on this reel of film
are true copies of the original document.

(signed) Lorraine Arnold
Camera Operator

Date 2-18-80

Skilling
Helle,

Christian Sen
Robertson, P.C

